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=> index agriculture, bioscience, chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.15	0.15

FULL ESTIMATED COST

INDEX 'AGRICOLA, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHNO, CABA, CAPLUS,
CBNB, CIN, CONFSCI, CROPB, CROPU, ESBIODBASE, FOMAD, FOREGE, FROSTI, FSTA,
GENBANK, IFIPAT, INVESTEXT, LIFESCI, NAPRALERT, NTIS, PHIC, PHIN, PROMT,
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80 FILES IN THE FILE LIST IN STNINDEX

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search error messages that display as 0* with SET DETAIL OFF.

=> S (transposon(w)tag?) and (wheat or barley)

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1  FILE AGRICOLA
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1  FILE BIOTECHNO
5  FILE CABA
5  FILE CAPLUS
1  FILE ESBIODBASE
18 FILES SEARCHED...
1  FILE LIFESCI
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26  FILE USPATFULL
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2  FILE BIOTECHDS
6  FILE DGENE
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2  FILE JICST-EPLUS
3  FILE TOXLIT
2  FILE WPIDS
77 FILES SEARCHED...

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15 FILES HAVE ONE OR MORE ANSWERS, 80 FILES SEARCHED IN STNINDEX

L1 QUE (TRANSPOSON(W) TAG?) AND (WHEAT OR BARLEY)

=> d rank

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F1      26  USPATFULL
F2      6   DGENE
F3      5   CABA
F4      5   CAPLUS
F5      3   TOXLIT
F6      2   BIOSIS
F7      2   SCISEARCH
F8      2   BIOTECHABS
F9      2   BIOTECHDS
F10     2   JICST-EPLUS
F11     2   WPIDS
F12     1   AGRICOLA
F13     1   BIOTECHNO
F14     1   ESBIODBASE
F15     1   LIFESCI

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=> file agricola, biosis, caba, caplus, scisearch, biotechabs, biotechds, biotechno

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.05	4.20

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FILE 'CABA' ENTERED AT 15:59:20 ON 03 OCT 2000
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=> s transposon

L2 31561 TRANSPOSON

=> s tag?

L3 85750 TAG?

=> s gene(s)delivery

L4 19197 GENE(S) DELIVERY

=> s ac or ds

L5 159925 AC OR DS

=> s barley and hordeum and wheat and triticum

L6 18995 BARLEY AND HORDEUM AND WHEAT AND TRITICUM

=> d his

(FILE 'HOME' ENTERED AT 15:53:32 ON 03 OCT 2000)

INDEX 'AGRICOLA, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHNO, CABA,
CAPLUS, CBNB, CIN, CONFSCI, CROPB, CROPU, ESBIODBASE, FOMAD, FOREGE,
FROSTI, FSTA, GENBANK, IFIPAT, INVESTEXT, LIFESCI, NAPRALERT, NTIS, PHIC,
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ON 03 OCT 2000

SEA (TRANSPOSON(W)TAG?) AND (WHEAT OR BARLEY)

1 FILE AGRICOLA
2 FILE BIOSIS
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2 FILE JICST-EPLUS
3 FILE TOXLIT
2 FILE WPIDS

L1 QUE (TRANSPOSON(W) TAG?) AND (WHEAT OR BARLEY)

FILE 'AGRICOLA, BIOSIS, CABA, CAPLUS, SCISEARCH, BIOTECHDS, BIOTECHNO'
ENTERED AT 15:59:20 ON 03 OCT 2000

L2 31561 S TRANSPOSON

L3 85750 S TAG?

L4 19197 S GENE(S)DELIVERY

L5 159925 S AC OR DS

L6 18995 S BARLEY AND HORDEUM AND WHEAT AND TRITICUM

=> s 12 and 13

L7 2271 L2 AND L3

=> s 12 and 14

L8 217 L2 AND L4

=> s 17 and 15

L9 571 L7 AND L5

=> s 18 and 15

L10 2 L8 AND L5

=> s 19 and 16

L11 1 L9 AND L6

=> s 110 and 16

L12 0 L10 AND L6

=> d his

(FILE 'HOME' ENTERED AT 15:53:32 ON 03 OCT 2000)

INDEX 'AGRICOLA, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHNO, CABA, CAPLUS, CBNB, CIN, CONFSCI, CROPB, CROPU, ESBIODBASE, FOMAD, FOREGE, FROSTI, FSTA, GENBANK, IFIPAT, INVESTEXT, LIFESCI, NAPRALERT, NTIS, PHIC, PHIN, PROMT, SCISEARCH, USPATFULL, ADISALERTS, ...' ENTERED AT 15:53:56 ON 03 OCT 2000

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L1 QUE (TRANSPON(W) TAG?) AND (WHEAT OR BARLEY)

FILE 'AGRICOLA, BIOSIS, CABA, CAPLUS, SCISEARCH, BIOTECHDS, BIOTECHNO' ENTERED AT 15:59:20 ON 03 OCT 2000

L2 31561 S TRANSPON

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L7 2271 S L2 AND L3

L8 217 S L2 AND L4

L9 571 S L7 AND L5

L10 2 S L8 AND L5

L11 1 S L9 AND L6
L12 0 S L10 AND L6

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KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L10

L13 2 DUPLICATE REMOVE L10 (0 DUPLICATES REMOVED)

=> d l13 1-2 ti, bib, abs

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS

TI **Transposon** tagging and **gene delivery** in
small grain cereals

AN 2000:161472 CAPLUS

DN 132:204014

TI **Transposon** tagging and **gene delivery** in
small grain cereals

IN Lemaux, Peggy; McElroy, David; Koprek, Thomas

PA The Regents of the University of California, USA

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000012734	A1	20000309	WO 1999-US19648	19990827
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9957891	A1	20000321	AU 1999-57891	19990827
PRAI	US 1998-98221		19980828		
	WO 1999-US19648		19990827		
AB	The disclosed discovery relates to the functioning of the Ac-Ds transposon system in small grain cereals such as barley, wheat, and oat. Despite the reported successes of the Ac-Ds system in dicotyledenous plant species, the successful stable introduction of these elements into monocotyledenous species has been limited to rice. Methods and compns. for using this system for introducing recombinant expression cassettes and transposon tagging of genes in small grain cereals are provided. The maize Ac/Ds transposable element system is active in stably transformed barley, and Ds elements can excise from one position in the genome and integrate at another. In some instances, reintegration of the Ds element occurs at sites in the genome that are unlinked to the original (excision) site; in other cases the sites are linked. Thus, the inventors have discovered that the Ac/Ds system may be used to tag genes in barley and other cereals such as wheat and oats, and may be used for delivering transgenes to new genomic positions. The latter capability can be used to obtain integration of a transgene contained within a Ds element at a position unlinked to the site at which the transformation vector originally integrated. This approach will be particularly useful for				

obtaining transgenic plants that express a beneficial transgene but do not contain the selectable resistance or screenable markers used in the transformation vector.

RE.CNT 4

RE

- (1) Laufs, J; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA 1990, V87, P7752 CAPLUS
- (2) McElroy, D; THE PLANT JOURNAL 1997, V11(1), P157 CAPLUS
- (3) Perera, R; PLANT MOLECULAR BIOLOGY 1993, V23, P793 CAPLUS
- (4) Univ California; WO 9201370 A 1992

L13 ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

TI Wheat-dwarf virus **Ac/Ds** vectors: expression and excision of transposable elements introduced into various cereals by a viral replicon;

vector expression in wheat, oat and rye; Activator excision and application to crop improvement

AN 1990-14780 BIOTECHDS

TI Wheat-dwarf virus **Ac/Ds** vectors: expression and excision of transposable elements introduced into various cereals by a viral replicon;

vector expression in wheat, oat and rye; Activator excision and application to crop improvement

AU Laufs J; Wirtz U; Kammann M; Matzeit V; Schaefer S; *Gronenborn B

CS Max-Planck-Inst.Genet.

LO Max-Planck-Institut fuer Zuechtungsforschung, 5000 Koeln 30, Germany.

SO Proc.Natl.Acad.Sci.U.S.A.; (1990) 87, 19, 7752-56

CODEN: PNASA6

DT Journal

LA English

AN 1990-14780 BIOTECHDS

AB The maize (Zea mays) **transposon** Activator (**Ac**) and in vitro-generated non-autonomous derivatives (**Ac**-delta and Dissociation) were inserted into the wheat-dwarf virus (WDV) genome at a site that does not interfere with virus replication. These recombinant virus genomes were introduced into wheat (Triticum aestivum), maize and rice (Oryza sativa) genomes, where rapid and efficient excision of **Ac** was observed. Excision was detected only from vectors in which, after transfection, the virus could replicate. This result is not restricted to the autonomous **Ac**; excision of **Ds** elements was also induced by transposase activity provided in trans by plasmids expressing the cDNA of **Ac**. Thus, the combination of **Ac** with the autonomously replicating genome of WDV leads to the rapid and genuine excision of **Ac**. Typical footprints were of the same type as those previously described for tobacco (Nicotiana tabacum) or Arabidopsis. Replicative, recombinant wheat-dwarf virus vectors were introduced into embryos of wheat, rye (Secale cereale), oat (Avena sp.) and other cereals, indicating the potential of the engineered **transposon** for **gene delivery** in monocotyledons. (44 ref)

=> d l11 ti

L11 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

TI Maize **transposon** system useful for introducing recombinant expression cassette and **transposon tagging** of genes in small grain cereals such as **barley**, **wheat**, **oats**, comprises **Ac/Ds** element;

system is useful for introducing recombinant expression cassettes to form transgenic plants and **transposon tagging** of genes in small grain cereals

=> d 111, bib, abs

L11 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 2000-07457 BIOTECHDS
TI Maize **transposon** system useful for introducing recombinant
expression cassette and **transposon tagging** of genes
in small grain cereals such as **barley**, **wheat**, oats,
comprises **Ac/Ds** element;
system is useful for introducing recombinant expression cassettes to
form transgenic plants and **transposon tagging** of
genes in small grain cereals
AU Lemaux P; Mcelroy D; Koprek T
PA Univ. California
LO Oakland, CA, USA.
PI WO 2000012734 9 Mar 2000
AI WO 1999-US19648 27 Aug 1999
PRAI US 1998-98221 28 Aug 1998
DT Patent
LA English
OS WPI: 2000-256649 [22]
AN 2000-07457 BIOTECHDS
AB A new **barley** (*Hordeum vulgare*) or **wheat** (*Triticum sativum*) plant (I) containing a **transposon**,
consisting of a **Ds** element or an **Ac** element,
integrated into its genome is claimed. Also claimed are: an
introduction of (II) recombinant expression cassette into a
barley or **wheat** plant, comprising introducing a
Ds element (by a sexual cross) comprising an expression cassette
into a plant; and creating (III) an insertional mutation in the genome of
barley or **wheat** plant, comprising introducing into the
plant an **Ac** element or **Ds** element. The **Ac/Ds**
Ds transposable element system is useful for introducing
recombinant expression cassette into a plant, for delivering transgenes
to new location. The integrated **Ds** elements are capable of
excising and reinserting into the genome at a new location. Also
disclosed are: a method of mobilizing a **Ds** element that is
integrated into the genome of **barley**; identifying and isolating
a gene from a cereal plant, comprising providing a plant with an
insertional mutation resulting from the insertion of an **Ac** or
Ds; and a cereal gene isolated by the method. (43pp)

=> d his

(FILE 'HOME' ENTERED AT 15:53:32 ON 03 OCT 2000)

INDEX 'AGRICOLA, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHNO, CABA,
CAPLUS, CBNB, CIN, CONFSCI, CROPB, CROPU, ESBIODBASE, FOMAD, FOREGE,
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PHIN, PROMT, SCISEARCH, USPATFULL, ADISALERTS, ...' ENTERED AT 15:53:56
ON 03 OCT 2000

SEA (TRANSPONON(W)TAG?) AND (WHEAT OR BARLEY)

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1 FILE LIFESCI
2 FILE SCISEARCH
26 FILE USPATFULL
2 FILE BIOTECHABS

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2 FILE BIOTECHDS
6 FILE DGENE
2 FILE JICST-EPLUS
3 FILE TOXLIT
2 FILE WPIDS
L1 QUE (TRANSPON(W) TAG?) AND (WHEAT OR BARLEY)
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FILE 'AGRICOLA, BIOSIS, CABA, CAPLUS, SCISEARCH, BIOTECHDS, BIOTECHNO'
ENTERED AT 15:59:20 ON 03 OCT 2000

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L2 31561 S TRANSPON
L3 85750 S TAG?
L4 19197 S GENE(S)DELIVERY
L5 159925 S AC OR DS
L6 18995 S BARLEY AND HORDEUM AND WHEAT AND TRITICUM
L7 2271 S L2 AND L3
L8 217 S L2 AND L4
L9 571 S L7 AND L5
L10 2 S L8 AND L5
L11 1 S L9 AND L6
L12 0 S L10 AND L6
L13 2 DUPLICATE REMOVE L10 (0 DUPLICATES REMOVED)

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=> s 15 and 16

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L14 145 L5 AND L6
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=> s 16 and 17

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L15 1 L6 AND L7
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=> d 115 ti

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L15 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Maize transposon system useful for introducing recombinant
expression cassette and transposon tagging of genes
in small grain cereals such as barley, wheat, oats,
comprises Ac/Ds element;
system is useful for introducing recombinant expression cassettes to
form transgenic plants and transposon tagging of
genes in small grain cereals

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=> s 12 and 16

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L16 9 L2 AND L6
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ENTER L# LIST OR (END):116

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DUPLICATE PREFERENCE IS 'BIOSIS, CABA, BIOTECHDS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

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PROCESSING COMPLETED FOR L16

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L17 9 DUPLICATE REMOVE L16 (0 DUPLICATES REMOVED)
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=> d 117 1-9 ti

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L17 ANSWER 1 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Maize transposon system useful for introducing recombinant
expression cassette and transposon tagging of genes in small
grain cereals such as barley, wheat, oats, comprises

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Ac/Ds element;
system is useful for introducing recombinant expression cassettes to form transgenic plants and **transposon** tagging of genes in small grain cereals

- L17 ANSWER 2 OF 9 BIOTECHNO COPYRIGHT 2000 Elsevier Science B.V.
TI Phylogeny and transpositional activity of Ty1-copia group retrotransposons in cereal genomes
- L17 ANSWER 3 OF 9 BIOSIS COPYRIGHT 2000 BIOSIS
TI Presence of **wheat** retrotransposons in Gramineae species and the origin of **wheat** retrotransposon families.
- L17 ANSWER 4 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Genetic manipulation of plant cell;
transgenic plant construction by *Agrobacterium tumefaciens* transformation and **transposon**-mediated integration
- L17 ANSWER 5 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Fertile transgenic plant production;
maize, rice, **wheat**, oat, **barley** transformation by microprojectile bombardment; propagation and crop improvement
- L17 ANSWER 6 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Vector for transformation of plant;
containing at least 1 copy of a plant DNA virus, and **transposon** Activator carrying the desired gene
- L17 ANSWER 7 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Multifunctional linker for simple and general cell transformation;
e.g. transformation of **barley** plants with **wheat** DNA
- L17 ANSWER 8 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Role of a phenazine antibiotic from *Pseudomonas fluorescens* in biological control of *Gaeumannomyces* var. *tritici*;
loss of phenazine-1-carboxylate production by **transposon** Tn5 mutagenesis
- L17 ANSWER 9 OF 9 CABA COPYRIGHT 2000 CABI
TI Development of host range mutants of *Xanthomonas campestris* pv. *translucens*.

=> d 117 5-7 abs

- L17 ANSWER 5 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1991-05744 BIOTECHDS
AB The production of transgenic monocotyledons comprises preparing a DNA molecule encoding a component to be expressed in the transgenic plant, contacting recipient cells with the DNA to allow DNA uptake, regenerating plants from the transformed cells, and identifying fertile, transgenic plants. Recipient cells are callus, gametic or meristematic cells, preferably a suspension cell culture derived from embryogenic Type II calli of maize (*Zea mays*), rice (*Oryza sativa*), **wheat** (*Triticum aestivum*), oat (*Avena* sp.) or **barley** (*Hordeum vulgare*). The DNA molecule comprises (a) a **transposon** e.g. activator, dissociation or **transposon** Mu, (b) a selectable marker gene e.g. neo, GUS, bar, mutant EPSP-synthase, nitrilase (EC-3.5.5.1), acetolactate-synthase (EC-4.1.3.18) or a gene from the R complex, and (c) a gene encoding a desired trait e.g. bialaphos herbicide resistance, insect resistance, antifreeze protein or a fungicide. The DNA (plasmid) is introduced into the cell culture by microprojectile DNA bombardment. The cells are then

cultured on media for shoot and root development. This method provides transgenic plants with improved properties. (109pp)

L17 ANSWER 6 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1991-14179 BIOTECHDS
AB A vector for transformation of plants contains: at least 1 copy of a recombinant plant DNA virus (I) containing a **transposon** (Activator) carrying a desired nucleic acid sequence; and the vir functions of a Ti or Ri plasmid and at least the right border sequence of the T-DNA or R-DNA of a Ti or Ri plasmid, respectively, (I) being located upstream of the right border sequence to allow its integration into the genome of an infected plant. Also claimed is an Agrobacterium sp. or plant cell harboring the vector. The DNA spreads throughout the resulting transgenic plant, into the natural host tissues of the virus. Suitable host plants are **wheat**, **barley**, rye, oat, maize, rice, sugarcane, sugarbeet, soybean, sorghum, sunflower, rape and alfalfa. The plant virus is preferably a caulimo virus or gemini virus (**wheat**-dwarf virus, maize-streak virus, **barley**-dwarf virus). The **transposon** is inserted at a region not essential for virus replication or spreading, e.g. transcription unit I and/or II, or substitutes at least part of these regions. The desired gene is expressed under the control of a promoter homologous or heterologous to the host plant. (26pp)

L17 ANSWER 7 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1989-04011 BIOTECHDS
AB A multifunctional linker suitable for transforming cells and containing at least: (1) a DNA sequence homologous to a part of the host genome, preferably of at least 100 bp; (2) an operator sequence, preferably derived from Escherichia coli; and (3) a replication sequence or a sequence which enables integrative recombination to occur in a vector are new. The linker also comprises a microorganism-derived selectable marker (e.g. aph3'II gene of **transposon** 5, the amp gene of **transposon** 1 or the xylE gene of Bacillus putida), a gene whose expression is readily detected in a host and a Z DNA or chi sequence which promotes recombination. The linker preferably has a hairpin structure at 1 or both of its ends. Also new is a method for transforming cells which comprises: (a) restricting DNA from a donor and ligating it with the linker; (b) using the DNA to transform a host using a direct method; and (c) screening and selecting the recombinants. The circular linker-DNA complex may be integrated into a gene bank and multiplied prior to transformation of host cells. In an example **wheat** DNA was introduced into **barley** plants. (17pp)

=> d 117 5 bib

L17 ANSWER 5 OF 9 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1991-05744 BIOTECHDS
TI Fertile transgenic plant production;
maize, rice, **wheat**, oat, **barley** transformation by
microprojectile bombardment; propagation and crop improvement
PA DeKalb-Plant-Genet.
PI WO 9102071 21 Feb 1991
AI WO 1990-US4462 8 Aug 1990
PRAI US 1990-513298 17 Apr 1990; US 1989-392176 9 Aug 1989
DT Patent
LA English
OS WPI: 1991-073544 [10]

=> s (lemaux, p? or lemaux p?)/au

L18 282 (LEMAUX, P? OR LEMAU P?)/AU

=> s (mcelroy, d? or mcelroy d?)/au

L19 366 (MCELROY, D? OR MCELROY D?)/AU

=> s (koprek, t? or koprek t?)/au

L20 39 (KOPREK, T? OR KOPREK T?)/AU

=> s l18 and transposon

L21 8 L18 AND TRANSPOSON

=> s l19 and transposon

L22 2 L19 AND TRANSPOSON

=> s l20 and transposon

L23 2 L20 AND TRANSPOSON

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KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

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L24 7 DUPLICATE REMOVE L21 (1 DUPLICATE REMOVED)

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KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

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=> duplicate remove l23

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KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

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=> d l26 1-2 ti

L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS

TI **Transposon** tagging and gene delivery in small grain cereals

L26 ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

TI Maize **transposon** system useful for introducing recombinant expression cassette and **transposon** tagging of genes in small grain cereals such as barley, wheat, oats, comprises Ac/Ds element; system is useful for introducing recombinant expression cassettes to form transgenic plants and **transposon** tagging of genes in small grain cereals

=> d l25 1-2 ti

L25 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS

TI **Transposon** tagging and gene delivery in small grain cereals

L25 ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Maize **transposon** system useful for introducing recombinant expression cassette and **transposon** tagging of genes in small grain cereals such as barley, wheat, oats, comprises Ac/Ds element; system is useful for introducing recombinant expression cassettes to form transgenic plants and **transposon** tagging of genes in small grain cereals

=> d l24 1-7 ti

L24 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2000 ACS
TI **Transposon** tagging and gene delivery in small grain cereals

L24 ANSWER 2 OF 7 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Maize **transposon** system useful for introducing recombinant expression cassette and **transposon** tagging of genes in small grain cereals such as barley, wheat, oats, comprises Ac/Ds element; system is useful for introducing recombinant expression cassettes to form transgenic plants and **transposon** tagging of genes in small grain cereals

L24 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2000 BIOSIS
TI **TRANSPOSON** TN-3 TRANSPOSITION AND CONTROL.

L24 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2000 ACS
TI Tn3: transposition and control

L24 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2000 ACS
TI Regulation of Tn3 transposition and specificity of its insertion sites

L24 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2000 ACS
TI Identification and characterization of a self-regulated repressor of translocation of the Tn3 element

L24 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1
TI Transposition protein of Tn3: identification and characterization of an essential repressor-controlled gene product

=> s l24 and plant

L27 2 L24 AND PLANT

=> d l27 1-2 ti

L27 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS
TI **Transposon** tagging and gene delivery in small grain cereals

L27 ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Maize **transposon** system useful for introducing recombinant expression cassette and **transposon** tagging of genes in small grain cereals such as barley, wheat, oats, comprises Ac/Ds element; system is useful for introducing recombinant expression cassettes to form transgenic plants and **transposon** tagging of genes in small grain cereals

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=> s transposon and (ac or ds)

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L2 1201 TRANSPOSON AND (AC OR DS)

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L3 24 L1 AND L2

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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2000 ACS
TI **Transposon** tagging and gene delivery in small grain cereals

L4 ANSWER 2 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
TI Maize **transposon** system useful for introducing recombinant
expression cassette and **transposon** tagging of genes in small
grain cereals such as **barley**, **wheat**, oats, comprises
Ac/Ds element;
system is useful for introducing recombinant expression cassettes to
form transgenic plants and **transposon** tagging of genes in
small grain cereals

L4 ANSWER 3 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS DUPLICATE 1
TI Germinal virus vector WDV (**wheat** dwarf virus)-mediated multiple
insertions of a maize **transposon**, **Ds** (dissociation),
in rice.

L4 ANSWER 4 OF 14 SCISEARCH COPYRIGHT 2000 ISI (R)
 TI Variations in the maize **Ac** transposase transcript level and the **Ds** excision frequency in transgenic **wheat** callus lines

L4 ANSWER 5 OF 14 AGRICOLA DUPLICATE 2
 TI Trans-activation of a maize **Ds** transposable element in transgenic **wheat** plants expressing the **Ac** transposase gene.

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2000 ACS
 TI Transcriptional regulation in plants using meiosis-specific DMC1 gene promoters

L4 ANSWER 7 OF 14 CABA COPYRIGHT 2000 CABI
 TI Functional complementation of anthocyanin sequestration in the vacuole by widely divergent glutathione S-transferases.

L4 ANSWER 8 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
 TI Fertile, transgenic maize plants and their production; crop improvement

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2000 ACS
 TI Plant DNA virus vector for the transformation of plants and process for the production of transgenic plants

L4 ANSWER 10 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS DUPLICATE 3
 TI **WHEAT** DWARF VIRUS **AC-DS** VECTORS EXPRESSION AND EXCISION OF TRANSPOSABLE ELEMENTS INTRODUCED INTO VARIOUS CEREALS BY A VIRAL REPLICON.

L4 ANSWER 11 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
 TI Transgenic rice plants; fusion of maize Adh-1, **wheat** histone H3 promoter with beta-glucuronidase GUS gene; expression in rice protoplast; transgenic plant (conference abstract)

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2000 ACS
 TI Transposable elements from maize and process for using same to identify and isolate plant genes and to insert genes into plants

L4 ANSWER 13 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
 TI DNA mediated transformation of cereal cells; **wheat** protoplast transformation using plasmid pMPI1103-04 carrying **transposon** Tn5 aminogluco-side-phosphotransferase gene (conference abstract)

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2000 ACS
 TI Direct gene transfer to cereal cells

=> d 14 3-14 bib, abs

L4 ANSWER 3 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS DUPLICATE 1
 AN 2000:266649 BIOSIS
 DN PREV200000266649
 TI Germinal virus vector WDV (**wheat** dwarf virus)-mediated multiple insertions of a maize **transposon**, **Ds** (dissociation), in rice.

AU Chin, Hang Gyeong; Park, Sung Han; Choe, Mi Sook; Park, Su Hyun; Oh, Byeong Keun; Lee, Gi Hwan; Choe, Hae Choon; Cho, Moo Je; Hong, Jong Chan; Han, Chang-deok (1)

CS (1) Department of Molecular Biology, Gyeongsang National University, Chinju, 660-701 South Korea

SO Journal of Plant Biology, (March, 2000) Vol. 43, No. 1, pp. 1-9. print..
ISSN: 1226-9239.

DT Article

LA English

SL English

AB **Wheat** dwarf virus (WDV) is a monocot-infecting geminivirus that replicates in infected tissue as double-stranded DNA. We evaluated whether the WDV vector system bearing **Ds** could be used as an effective insertional mutagen in rice. Molecular data showed that **Ds** was excised from WDV vectors once the WDV-carrying **Ds** (WDV::**Ds**) and the genomic **Ac** vector were co-introduced into rice calli. Mature T0 and T1 transgenic plants were analyzed for the distribution and inheritance of **Ds** inserts. Southern analysis indicated that the **Ds** elements excised from WDV vectors were stably inserted into genomes. The number of transposed **Ds** ranged from zero to three copies, among independent transformants. Meanwhile, untransposed **Ds** (WDV::**Ds**) were present in multiple-copies in genomes. Southern analysis of the selfed progeny of T0 plants demonstrated that most WDV::**Ds** were co-segregated among siblings. This indicated that these elements were integrated into the same single loci. However, a few **Ds** were found to segregate independently from the majority of **Ds**. In this report, we discuss the efficiency of WDV vectors in generating multicopy **Ds** in rice genomes.

L4 ANSWER 4 OF 14 SCISEARCH COPYRIGHT 2000 ISI (R)

AN 1999:987988 SCISEARCH

GA The Genuine Article (R) Number: 266JU

TI Variations in the maize **Ac** transposase transcript level and the **Ds** excision frequency in transgenic **wheat** callus lines

AU Takumi S (Reprint); Murai K; Mori N; Nakamura C

CS KOBE UNIV, FAC AGR, DEPT BIOL & ENVIRONM SCI, LAB PLANT GENET, NADA KU, KOBE, HYOGO 6578501, JAPAN; FUKUI PREFECTURAL UNIV, DEPT BIOSCI, MATSUOKA, FUKUI 9101195, JAPAN

CYA JAPAN

SO GENOME, (DEC 1999) Vol. 42, No. 6, pp. 1234-1241.
Publisher: NATL RESEARCH COUNCIL CANADA, RESEARCH JOURNALS, MONTREAL RD, OTTAWA ON K1A 0R6, CANADA.
ISSN: 0831-2796.

DT Article; Journal

FS LIFE; AGRI

LA English

REC Reference Count: 33
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB To investigate the excision of a maize transposable element in **wheat** cells, plasmid DNAs containing a Dissociation (**Ds**) element located between a rice actin 1 gene promoter and a beta-glucuronidase (GUS) gene (*gus*) were introduced into **wheat** callus lines by microprojectile bombardment, and transient GUS expression was assayed. The *gus*-expressing cells after **Ds** excision were detected only when the Activator (**Ac**) transposase gene was co-transformed. To further examine a relationship between the amount of **Ac** mRNA and the **Ds** excision frequency, the **Ds**-containing plasmids were introduced into 15 independent transgenic callus lines transformed with the **Ac** transposase gene. Ten lines expressed the **Ac** transposase gene under the control of either the cauliflower mosaic virus 35S promoter or the **Ac** native promoter. The *gus* gene expression that indicated the **Ds** excision was observed only in the transgenic callus lines stably expressing the **Ac** transposase gene. The number of blue spots reflecting the frequency of **Ds** excision was variable among them. Northern-blot analysis also showed a large variability in the amount of **Ac** transposase transcripts among the lines. It was however noted that the excision frequency was decreased at a high level of the **Ac** transposase transcripts, supporting the hypothesis that **Ds**

excision is inhibited above a certain level of the **Ac** transposase as observed in maize and transgenic tobacco.

L4 ANSWER 5 OF 14 AGRICOLA DUPLICATE 2
AN 2000:6025 AGRICOLA
DN IND22017699
TI Trans-activation of a maize **Ds** transposable element in transgenic **wheat** plants expressing the **Ac** transposase gene.
AU Takumi, S.; Murai, K.; Mori, N.; Nakamura, C.
CS Kobe University, Japan.
AV DNAL (442.8 Z8)
SO Theoretical and applied genetics, May 1999. Vol. 98, No. 6/7. p. 947-953
Publisher: Berlin; Springer-Verlag
CODEN: THAGA6; ISSN: 0040-5752
NTE Includes references
CY West Berlin
DT Article
FS Non-U.S. Imprint other than FAO
LA English
AB To develop a **transposon** tagging system in **wheat** (**Triticum aestivum** L.), transgenic **wheat** lines containing a transposase gene of the maize Activator (**Ac**) element were produced and characterized. The **Ac** transposase gene under the control of a cauliflower mosaic virus 35S promoter was introduced into cultured **wheat** embryos by particle bombardment. Several transgenic **wheat** plants expressing the transposase gene were independently recovered. Southern-and Northern-blot analyses of their progeny showed that the expression of the **Ac** transposase gene was stably inherited, and three fixed **Ac** lines were established. By RT-PCR analysis, products from fully spliced transcripts of the **Ac** element were confirmed. Cultured embryos isolated from the stable **Ac** lines were further bombarded with plasmids having a maize Dissociation (**Ds**) element located between a rice Act1 promoter and a beta-glucuronidase (gus) gene, and transient gus expression was observed after the **Ds** excision. These findings suggest that the maize **Ac** transposase gene is precisely processed and an active transposase protein is synthesized in the transgenic **Ac** lines. The **Ds** element is trans-activated and excised in **wheat** cells by the action of the **Ac** transposase gene.

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2000 ACS
AN 1998:479627 CAPLUS
DN 129:105258
TI Transcriptional regulation in plants using meiosis-specific DMC1 gene promoters
IN Jones, Jonathan Dallas George; Klimyuk, Victor Ivanovich; Dirks, Robert
PA John Innes Centre Innovations Ltd., UK
SO PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9828431	A1	19980702	WO 1997-GB3546	19971224
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9853330	A1	19980717	AU 1998-53330	19971224

GB 2335195	A1	19990915	GB 1999-14211	19971224
EP 948633	A1	19991013	EP 1997-950332	19971224

R: DE, ES, FR, GB, IT

PRAI GB 1996-26858 19961224

WO 1997-GB3546 19971224

AB The present invention relates to regulatory sequences for meiosis-specific transcription of nucleic acid sequences or genes of interest and uses thereof. There is provided a promoter which confers meiosis-specific transcriptional regulation in plants. The meiosis-specific promoter of *Arabidopsis thaliana* gene DMC1 is provided, as well as homolog promoters from **barley** and tomato. The plant genome targets may be lox recombination sites which are activated by cre recombinase under control of the inducible promoter. Such promoters may be used in improving **transposon** tagging efficiency, searching for apomictic mutants, and/or the production of sterile plants. The present invention also provides a construct comprising a promoter of the present invention suitable for searching for apomictic mutants as well as for apomictic seed production

L4 ANSWER 7 OF 14 CABA COPYRIGHT 2000 CABI

AN 1998:140184 CABA

DN 981612023

TI Functional complementation of anthocyanin sequestration in the vacuole by widely divergent glutathione S-transferases

AU Alfenito, M. R.; Souer, E.; Goodman, C. D.; Buell, R.; Mol, J.; Koes, R.; Walbot, V.

CS Department of Biological Sciences, Stanford University, Stanford, CA 94305-5020, USA.

SO Plant Cell, (1998) Vol. 10, No. 7, pp. 1135-1149. 68 ref.

ISSN: 1040-4651

DT Journal

LA English

AB Glutathione S-transferases (GSTs) have traditionally been studied in plants and other organisms for their ability to detoxify chemically diverse herbicides and other toxic organic compounds. Anthocyanins are among the few endogenous substrates of plant GSTs that have been identified. The Bronze2 (Bz2) gene encodes a type III GST and performs the last genetically defined step of the maize anthocyanin pigment pathway. This step is the conjugation of glutathione to cyanidin 3-glucoside (C3G). Glutathionated C3G is transported to the vacuole via a tonoplast Mg-ATP-requiring glutathione pump (GS-X pump). Genetically, the comparable step in the petunia anthocyanin pathway is controlled by the Anthocyanin9 (An9) gene. An9 was cloned by **transposon** tagging and found to encode a type I plant GST. Bz2 and An9 have evolved independently from distinct types of GSTs, but each is regulated by the conserved transcriptional activators of the anthocyanin pathway. Here, a phylogenetic analysis is conducted using by comparing An9 and Bz2 with GSTs from *P. vulgaris*, *A. thaliana*, **wheat**, *Silene cucubalus*, potato, tobacco and soyabean, with special consideration given to the origin of these genes and their relaxed substrate requirements. In particle bombardment tests, An9 and Bz2 functionally complemented both mutants. Among several other GSTs tested, only soyabean GmGST26A (previously called GmHsp26A and GH2I4) and maize GSTIII were found to confer vacuolar sequestration of anthocyanin. Previously, these genes had not been associated with the anthocyanin pathway. Requirements for An9 and Bz2 gene function were investigated by sequencing functional and non-functional germinal revertants of an9-T3529, bz2::Ds and bz2::Mul.

L4 ANSWER 8 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

AN 1995-05870 BIOTECHDS

TI Fertile, transgenic maize plants and their production;
crop improvement

AU Dams T R; Anderson P C; Daines R J; Gordon-Kamm W J; Kausch A P; Mackey C J; Orozco Jr E M; Orr P M; Stephens M A

PA DeKalb-Genet.

PI WO 9506128 2 Mar 1995
 AI WO 1994-US9699 24 Aug 1994
 PRAI US 1993-113561 25 Aug 1993
 DT Patent
 LA English
 OS WPI: 1995-106857 [14]
 AN 1995-05870 BIOTECHDS
 AB A fertile, transgenic maize (*Zea mays*) plant has its genome augmented by the introduction of a DNA composition comprising: a selectable marker gene, e.g. tyrosinase (EC-1.14.18.1) gene; a juvenile-hormone-esterase gene; a multiple antibiotic-resistance region; a negatively selectable marker, e.g. cytosine-deaminase (EC-3.5.4.1) gene; an exogenous gene encoding a selected trait; a gene encoding an insect resistance; disease-resistance; stress resistance; drought resistance; and a grain composition trait. The transgenic plant exhibits one or more phenotypic characteristics that renders it identifiable over untransformed maize plants. The gene is transmittable through normal sexual reproduction. The DNA composition may further include **Ac**, **Ds** or phage Mu transposable elements. The vector is based on **wheat**-dwarf virus. DNA constructs preferably include a plant promoter, e.g. CaMV 35S promoter. The DNA composition is transformed into cells by microprojectile bombardment, electroporation or agitation of cells in a DNA solution. Such techniques will allow crop improvements based on in vitro genetic transformation, e.g. insect resistance. (351pp)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2000 ACS
 AN 1992:229625 CAPLUS
 DN 116:229625
 TI Plant DNA virus vector for the transformation of plants and process for the production of transgenic plants
 IN Baker, Barbara; Gronenborn, Bruno; Laufs, Jurgen; Wirtz, Uwe; Schell, Jeff
 PA Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Germany
 SO Can. Pat. Appl., 27 pp.
 CODEN: CPXXEB
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2007713	AA	19910712	CA 1990-2007713	19900112

AB Vectors for transformation of plant cells contain ≥ 1 copy of a recombinant plant DNA virus containing a **transposon** carrying a desired DNA sequence. These vectors are suitable for production of transgenic plants, especially monocotyledonous plants. A plasmid containing a **wheat** dwarf virus with most of ORFI and II deleted was prepared, and the **Ac** element of maize was inserted into the deleted area. The resulting plasmid, pWDV::**Ac** was used to transform maize protoplasts. PCR anal. of the transformants indicated that the **Ac** element had been lost from the vector.

L4 ANSWER 10 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS DUPLICATE 3
 AN 1991:4472 BIOSIS
 DN BA91:4472
 TI **WHEAT DWARF VIRUS AC-DS VECTORS EXPRESSION AND EXCISION OF TRANSPOSABLE ELEMENTS INTRODUCED INTO VARIOUS CEREALS BY A VIRAL REPLICON.**
 AU LAUFS J; WIRTZ U; KAMMANN M; MATZEIT V; SCHAEFFER S; SCHELL J; CZERNILOFSKY A P; BAKER B; GRONENBORN B
 CS MAX-PLANCK-INST. FUER ZUCHTUNGSFORSCHUNG, 5000 KOELN 30, FRG.
 SO PROC NATL ACAD SCI U S A, (1990) 87 (19), 7752-7756.
 CODEN: PNASA6. ISSN: 0027-8424.
 FS BA; OLD
 LA English
 AB The maize **transposon** Activator (**Ac**) and in vitro-generated nonautonomous derivatives thereof [**Ac.DELTA**. or

Dissociation (**Ds**) elements] were inserted into the genome of a geminivirus of graminaceous plants, **wheat** dwarf virus, at a site that does not interfere with viral replication. These recombinant viral genomes were introduced into **wheat**, maize, and rice protoplasts, where rapid and efficient excision of **Ac** was observed. Excision was detected only in vectors in which, after transfection, the virus could replicate. This result is not restricted to the autonomous **Ac**; excision of **Ds** elements was also induced by transposase activity provided in trans by plasmids expressing the cDNA of **Ac**. The potential of this combination of a **transposon** with a viral replicon for plant molecular genetic engineering is discussed.

L4 ANSWER 11 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
 AN 1990-14194 BIOTECHDS
 TI Transgenic rice plants;
 fusion of maize Adh-1, **wheat** histone H3 promoter with
 beta-glucuronidase GUS gene; expression in rice protoplast; transgenic
 plant (conference abstract)
 AU Shimamoto K
 LO Plantech Research Institute, 1000 Kamoshida, Midori-ku, Yokohama, 227,
 Japan.
 SO J.Cell.Biochem.; (1990) Suppl.14E, 258
 CODEN: JCEBD5
 DT Journal
 LA English
 AN 1990-14194 BIOTECHDS
 AB To examine regulated expression of monocot genes in transgenic rice

(*Oryza sativa*) plants, promoters of maize (*Zea mays*) Adh-1 and **wheat** (*Triticum aestivum*) histone H3 were fused with a beta-glucuronidase (GUS, EC-3.2.1.31) gene, and these constructs were introduced into rice protoplasts. Analysis of cell specificity in expression of these promoters in different tissues of transgenic plants by GUS histochemical assay indicated that these monocot promoters were correctly expressed in specific cell types of transgenic rice plants. Maize transposons, Activator (**Ac**)/Dissociation (**Ds**), were also introduced into rice plants and it was shown that **Ac** and **Ds**, when trans-activated by **Ac**, transpose in transgenic rice plants. Results show that rice may be used as a model plant for studies in gene regulation of monocot genes, and that gene transfer may be applied for improvement of commercially important rice. (1 ref)

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2000 ACS
 AN 1988:199482 CAPLUS
 DN 108:199482
 TI Transposable elements from maize and process for using same to identify
 and isolate plant genes and to insert genes into plants
 IN Federoff, Nina V.
 PA Carnegie Institution of Washington, USA
 SO U.S., 2 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4732856	A	19880322	US 1984-596224	19840403

AB Transposable elements are isolated from maize and used to identify and isolate the Bz locus. Genomic DNA of maize containing the Acwx-m9, wx-m9, and wx-m6 alleles was digested with BglII and the DNA cloned in λEMBL4. The plasmids containing these alleles (pAc9, pDs9, and pDs6, resp.) were identified by hybridization with the EcoRI fragment of the Wx locus. Maize DNA was found to have many copies of **Ds**-homologous DNA, but relatively few Ac9-homologous copies. DNA homologous to Ac9 was used to isolate the Bz locus of maize. The structural differences among these

3 transposons were identified: only the Ac9 **transposon** was active; the **Ds transposon** was derived from **Ac** by a deletion mutation.

L4 ANSWER 13 OF 14 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
 AN 1985-08080 BIOTECHDS
 TI DNA mediated transformation of cereal cells;
 wheat protoplast transformation using plasmid pMPI1103-04
 carrying **transposon** Tn5 aminoglucoside-phosphotransferase
 gene (conference abstract)
 AU Loerz H; Baker B J; Hain R; Schell J
 CS Max-Planck-Inst.Genet.
 LO Max-Planck-Institut fuer Zuechtungsforschung, D-5000 Koeln 30, Germany.
 SO J.Cell.Biochem.; (1985) Suppl.9C, 260
 DT Journal
 LA English
 AN 1985-08080 BIOTECHDS
 AB Evidence for direct gene transfer to cultured cells of **Triticum**
 monococcum (**wheat**) was presented. The pBr322-derived plasmid
 pMPI1103-4 containing a selectable chimeric gene comprising the protein
 region of the Tn5 aminoglucoside-phosphotransferase type II (NPT II), the
 nopaline-synthase promoter (pNOS), and the maize controlling element
Ac was used. Protoplasts from the cell culture were incubated
 with plasmid DNA, and regenerating and dividing cells were plated 4-7
 days after culture initiation into agarose solidified medium containing
 100 ug/ml kanamycin sulfate. Selected colonies were tested for NPT II
 gene expression. No activity was found in untreated callus tissue of T.
 monococcum, but NPT II enzyme was found in protoplast-derived tissue
 treated with pMPI1103-4 DNA. Experiments are in progress to analyze the
 DNA of transformed tissue. The possibility of direct gene transfer to
 cereal cells will allow investigations with Gramineae which have so far
 been restricted to dicotyledonous spp. (0 ref)

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2000 ACS
 AN 1986:181070 CAPLUS
 DN 104:181070
 TI Direct gene transfer to cereal cells
 AU Baker, Barbara; Schell, Jeff; Loerz, Horst
 CS Max-Planck-Inst. Zuechtungsforsch., Cologne, D-5000/30, Fed. Rep. Ger.
 SO UCLA Symp. Mol. Cell. Biol., New Ser. (1985), 35(Plant Genet.), 201-11
 CODEN: USMBD6; ISSN: 0735-9543
 DT Journal
 LA English
 AB Direct gene transfer to cereal cells was achieved by transformation of
 protoplasts with naked DNA. Protoplasts isolated from cultured cells of
Triticum monococcum were incubated with polyethylene glycol and
 circular and linear plasmid DNA. The pBR322-derived plasmid, pBL 1103-4,
 contains a selectable chimeric gene comprised of the protein-coding region
 of the **transposon** Tn5 aminoglycoside phosphotransferase
 [56941-28-7] type II gene (NPT II), the nopaline synthase [71245-09-5]
 promoter (pNOS), and the polyadenylation signal of the octopine synthase
 [74505-31-0] gene. The autonomous transposable element of maize,
 Activator (**Ac**), is situated upstream of the chimeric NPT II gene
 in plasmid pBL 1103-4. Transformed cells were selected in medium containing
 kanamycin and identified by detection of aminoglycoside phosphotransferase
 II activity.

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NEWS 4	Apr 09	ZDB will be removed from STN
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NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
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NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27	Oct 21	EVENTLINE has been reloaded
NEWS 28	Oct 24	BEILSTEIN adds new search fields
NEWS 29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 31	Nov 18	DKILIT has been renamed APOLLIT
NEWS 32	Nov 25	More calculated properties added to REGISTRY
NEWS 33	Dec 02	TIBKAT will be removed from STN
NEWS 34	Dec 04	CSA files on STN
NEWS 35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36	Dec 17	TOXCENTER enhanced with additional content
NEWS 37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 38	Dec 30	ISMEC no longer available

NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
 NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
 NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
 ENERGY, INSPEC
 NEWS 43 Feb 13 CANCERLIT is no longer being updated
 NEWS 44 Feb 24 METADEX enhancements
 NEWS 45 Feb 24 PCTGEN now available on STN
 NEWS 46 Feb 24 TEMA now available on STN
 NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation
 NEWS 48 Feb 26 PCTFULL now contains images

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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=> s barley OR hordeum
 L1 200072 BARLEY OR HORDEUM

=> s stable(w)transformation OR stably(w)transformed
 L2 4462 STABLE(W) TRANSFORMATION OR STABLY(W) TRANSFORMED

=> s l1 and l2

L3 179 L1 AND L2

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DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
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L4 75 DUPLICATE REMOVE L3 (104 DUPLICATES REMOVED)

=> d l4 1-10 ti

L4 ANSWER 1 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Artificial chromosome vectors for **stable transformation**
of plants

L4 ANSWER 2 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Gliocladium ZES gene zearalenone esterases and cDNAs, ZES-expressing
microbes, animals, and plants, and their use in zearalenone detoxification

L4 ANSWER 3 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Sequence of corn seed preferred regulatory elements and uses thereof

L4 ANSWER 4 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Sequence of Douglas fir luminal binding protein gene promoter PmBiPProl
and uses in transgene expression in plants

L4 ANSWER 5 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Cloning of maize PR1 polynucleotides for enhancing pathogen resistance in
plants

L4 ANSWER 6 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI cDNAs encoding puroindoline proteins for improved grain hardness in
transgenic plants and in food preparation

L4 ANSWER 7 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI Seed-preferred promoter from **barley**.

L4 ANSWER 8 OF 75 MEDLINE

DUPLICATE 1

TI A plant gene up-regulated at rust infection sites.

L4 ANSWER 9 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Methods for rapid transformation and regeneration of **stably transformed** monocotyledonous plants

L4 ANSWER 10 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI Sequence of a promoter from **barley** directing gene expression in
seed tissues

=> d l4 11-20 ti

L4 ANSWER 11 OF 75 CAPLUS COPYRIGHT 2003 ACS

TI A promoter from maize directing gene expression in seed tissues

L4 ANSWER 12 OF 75 CABA COPYRIGHT 2003 CABI

DUPLICATE 2

TI Agrobacterium-mediated transgene delivery and integration into
barley under a range of in vitro culture conditions.

L4 ANSWER 13 OF 75 AGRICOLA

DUPLICATE 3

TI Fertile transgenic plants obtained from tritordeum inflorescences by
tissue electroporation.

L4 ANSWER 14 OF 75 CABA COPYRIGHT 2003 CABI

DUPLICATE 4

TI Effect of heat shock treatment on **Hordeum vulgare** protoplast

transformation mediated by polyethylene glycol.

- L4 ANSWER 15 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Sequences of maize metallothionein gene and root-specific promoter, and uses thereof in altering metal metabolism in plants
- L4 ANSWER 16 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Seed-preferred promoter from soybean albumin gene and uses in transgenic plants
- L4 ANSWER 17 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Transposon tagging and gene delivery in small grain cereals
- L4 ANSWER 18 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Use of endosperm-specific promoters from maize end genes in transgenic plants
- L4 ANSWER 19 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Seed-preferred promoters for regulating heterologous gene expression in plants
- L4 ANSWER 20 OF 75 MEDLINE DUPLICATE 5
TI An efficient method for dispersing Ds elements in the **barley** genome as a tool for determining gene function.

=> d 14 12,14,20 bib

- L4 ANSWER 12 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 2
AN 2002:7180 CABA
DN 20013145826
TI Agrobacterium-mediated transgene delivery and integration into **barley** under a range of in vitro culture conditions
AU Trifonova, A.; Madsen, S.; Olesen, A.
CS Dept. of Agricultural Sciences Plant Breeding and Crop Science, The Royal Veterinary and Agricultural University, 40, Thorvaldsensvej, DK-1871 Frederiksberg C, Denmark.
SO Plant Science, (2001) Vol. 161, No. 5, pp. 871-880. 32 ref.
ISSN: 0168-9452
DT Journal
LA English
- L4 ANSWER 14 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 4
AN 2001:102582 CABA
DN 20013066287
TI Effect of heat shock treatment on **Hordeum** vulgare protoplast transformation mediated by polyethylene glycol
AU Tiwari, V. K.; Zhang, J.; Golds, T. J.; Cocking, E. C.; Davey, M. R.; Power, J. B.
CS Plant Genetic Manipulation Group, Department of Life Science, University of Nottingham, University Park, Nottingham NG7 2RD, UK.
SO Biologia Plantarum, (2001) Vol. 44, No. 1, pp. 25-31. 51 ref.
ISSN: 0006-3134
DT Journal
LA English
- L4 ANSWER 20 OF 75 MEDLINE DUPLICATE 5
AN 2001081495 MEDLINE
DN 20521527 PubMed ID: 11069699
TI An efficient method for dispersing Ds elements in the **barley** genome as a tool for determining gene function.
AU Koprek T; McElroy D; Louwerse J; Williams-Carrier R; Lemaux P G
CS Department of Plant and Microbial Biology, University of California, Berkeley, CA 94720, USA.. tkoprek@nature.berkeley.edu
SO PLANT JOURNAL, (2000 Oct) 24 (2) 253-63.

Journal code: 9207397. ISSN: 0960-7412.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200101
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010105

=> d l4 21-30 ti

- L4 ANSWER 21 OF 75 MEDLINE DUPLICATE 6
TI **Stable transformation** of erysiphe graminis an obligate
biotrophic pathogen of **barley**.
- L4 ANSWER 22 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 7
TI The effect of DNA/gold particle preparation technique, and particle
bombardment device, on the transformation of **barley** (
Hordeum vulgare).
- L4 ANSWER 23 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Integration of foreign DNA into eukaryotic genomes using two recombination
sites and a chimeric recombinase with dual specificity
- L4 ANSWER 24 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Production of proteins in plant seeds using seed maturation-specific
promoters and signal sequences
- L4 ANSWER 25 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Cloning and cDNA sequences for plant ATP-phosphoribosyltransferase and DNA
coding therefor and their uses with regard to herbicide resistance
- L4 ANSWER 26 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Methods and compositions for the production of **stably**
transformed fertile monocot plants and cells thereof.
- L4 ANSWER 27 OF 75 AGRICOLA DUPLICATE 8
TI Inheritance of tissue-specific expression of **barley** hordein
promoter-uidA fusions in transgenic **barley** plants.
- L4 ANSWER 28 OF 75 CABA COPYRIGHT 2003 CABI
TI Agrobacterium-mediated **stable transformation** of
barley (**Hordeum** vulgare L.).
- L4 ANSWER 29 OF 75 CABA COPYRIGHT 2003 CABI
TI Plant regeneration and transient expression after particle bombardment of
different **barley** (**Hordeum** vulgare L.) genotypes.
- L4 ANSWER 30 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI construction of Fusarium pathogen-resistant monocot plants by
antisense-RNA mediated inhibition of Dihydroquercetin reductase gene
expression resulting in elevated levels of secondary metabolites

=> d l4 22,26,27,28 bib

- L4 ANSWER 22 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 7
AN 2000:70919 CABA
DN 20001609747
TI The effect of DNA/gold particle preparation technique, and particle
bombardment device, on the transformation of **barley** (
Hordeum vulgare)
AU Harwood, W. A.; Ross, S. M.; Cilento, P.; Snape, J. W.

CS John Innes Centre, Norwich Research Park, Colney, Norwich NR4 7UH, UK.
SO Euphytica, (2000) Vol. 111, No. 1, pp. 67-76. 24 ref.
ISSN: 0014-2336
DT Journal
LA English

L4 ANSWER 26 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:278874 BIOSIS
DN PREV2000000278874
TI Methods and compositions for the production of **stably transformed** fertile monocot plants and cells thereof.
AU Adams, Thomas R. (1); Chambers, Sheryl A.; Daines, Richard J.; Gordon-Kamm, William J.; Kausch, Albert P.; Lemaux, Peggy G.; Mackey, Catherine J.; Mangano, May L.; O'Brien, James V.; Rice, Thomas B.; Spencer, T. Michael; Start, William G.; Willetts, Nancy G.
CS (1) Mantic, CT USA
ASSIGNEE: Dekalb Genetics Corporation, Dekalb, IL, USA
PI US 5969213 October 19, 1999
SO Official Gazette of the United States Patent and Trademark Office Patents, (Oct. 19, 1999) Vol. 1227, No. 3, pp. No pagination. e-file.
ISSN: 0098-1133.
DT Patent
LA English

L4 ANSWER 27 OF 75 AGRICOLA DUPLICATE 8
AN 2000:14779 AGRICOLA
DN IND22023509
TI Inheritance of tissue-specific expression of **barley** hordein promoter-uidA fusions in transgenic **barley** plants.
AU Cho, M.J.; Choi, H.W.; Buchanan, B.B.; Lemaux, P.G.
CS University of California, Berkeley.
AV DNAL (442.8 Z8)
SO Theoretical and applied genetics, June 1999. Vol. 98, No. 8. p. 1253-1262
Publisher: Berlin; Springer-Verlag
CODEN: THAGA6; ISSN: 0040-5752
NTE Includes references
CY West Berlin
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L4 ANSWER 28 OF 75 CABA COPYRIGHT 2003 CABI
AN 2000:29581 CABA
DN 20001606262
TI Agrobacterium-mediated **stable transformation** of **barley** (*Hordeum vulgare* L.)
AU Wu, H.; McCormac, A. C.; Elliott, M. C.; Chen, D. F.; Altman, A. [EDITOR]; Ziv, M. [EDITOR]; Izhar, S. [EDITOR]
CS Norman Borlaug Institute for Plant Science Research, De Montfort University, Scraptoft, Leicester LE7 9SU, UK.
SO Plant biotechnology and in vitro biology in the 21st century. Proceedings of the IXth International Congress of the International Association of Plant Tissue Culture and Biotechnology, Jerusalem, Israel, 14-19 June 1998, (1999) pp. 231-234. Current Plant Science and Biotechnology in Agriculture Vol. 36. 9 ref.
Publisher: Kluwer Academic Publishers. Dordrecht
Meeting Info.: Plant biotechnology and in vitro biology in the 21st century. Proceedings of the IXth International Congress of the International Association of Plant Tissue Culture and Biotechnology, Jerusalem, Israel, 14-19 June 1998.
ISBN: 0-7923-5826-0
CY Netherlands Antilles
DT Conference Article
LA English

=> d 14 31-40 ti

- L4 ANSWER 31 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 9
TI Exotic gene expression in transgenic plants as a tool for monitoring environmental pollution.
- L4 ANSWER 32 OF 75 AGRICOLA DUPLICATE 10
TI Dehydration-stress-regulated transgene expression in **stably transformed** rice plants.
- L4 ANSWER 33 OF 75 AGRICOLA DUPLICATE 11
TI Agrobacterium-mediated **stable transformation** of cell suspension cultures of **barley** (*Hordeum vulgare*).
- L4 ANSWER 34 OF 75 AGRICOLA DUPLICATE 12
TI Genetic engineering of disease resistance in cereals.
- L4 ANSWER 35 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Malting process for the production of degradation and/or conversion products of storage substances present in transgenic plant material
- L4 ANSWER 36 OF 75 MEDLINE DUPLICATE 13
TI Development of a simple transient assay for Ac/Ds activity in cells of intact **barley** tissue.
- L4 ANSWER 37 OF 75 CABA COPYRIGHT 2003 CABI
TI An evaluation of target cells and tissues used in genetic transformation of cereals.
- L4 ANSWER 38 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Resistance to viruses and viroids in transgenic plant and animal hosts expressing double-stranded RNA-binding protein
- L4 ANSWER 39 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of **stably transformed** transgenic cereal plants by microparticle bombardment of meristematic tissue from immature embryos
- L4 ANSWER 40 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 14
TI Transformation of wheat with the gene encoding the coat protein of **barley** yellow mosaic virus.

=> d 14 33,39 bib

- L4 ANSWER 33 OF 75 AGRICOLA DUPLICATE 11
AN 1999:49184 AGRICOLA
DN IND21991216
TI Agrobacterium-mediated **stable transformation** of cell suspension cultures of **barley** (*Hordeum vulgare*).
AU Wu, H.; McCormac, A.C.; Elliott, M.C.; Chen, D.F.
CS IACE-Rothamsted, Herts, UK.
AV DNAL (QK725.P53)
SO Plant cell, tissue and organ culture, 1998. Vol. 54, No. 3. p. 161-171
Publisher: Dordrecht, The Netherlands : Kluwer Academic Publishers.
CODEN: PTCEDJ; ISSN: 0167-6857
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English
- L4 ANSWER 39 OF 75 CAPLUS COPYRIGHT 2003 ACS
AN 1996:295123 CAPLUS

DN 124:309571
 TI Preparation of **stably transformed** transgenic cereal plants by microparticle bombardment of meristematic tissue from immature embryos
 IN Bowen, Benjamin A.; Lowe, Keith; Ross, Margot C.; Sandahl, Gary A.; Tomes, Dwight T.; Songstad, David D.; Gordon-kamm, William J.
 PA Pioneer Hi-Bred International, Inc., USA
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9604392	A2	19960215	WO 1995-US8977	19950726
	WO 9604392	A3	19960328		
	W:		AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT		
	RW:		KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	US 5736369	A	19980407	US 1995-483091	19950607
	CA 2195206	AA	19960215	CA 1995-2195206	19950726
	AU 9536247	A1	19960304	AU 1995-36247	19950726
	AU 697373	B2	19981001		
	EP 772687	A2	19970514	EP 1995-933706	19950726
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, BR 9508341	BR 1995-8341	19950726
	HU 76841	A2	19971128	HU 1997-247	19950726
	JP 10503374	T2	19980331	JP 1995-506538	19950726
	ZA 9506302	A	19960314	ZA 1995-6302	19950728
PRAI	US 1994-282270		19940729		
	US 1995-483091		19950607		
	US 1995-438091		19950607		
	WO 1995-US8977		19950726		

=> d 14 41-50 ti

L4 ANSWER 41 OF 75 CAPLUS COPYRIGHT 2003 ACS
 TI **Stable transformation** of the coat protein (CP) gene of **barley** yellow dwarf virus (BYDV) in protoplasts of wheat

L4 ANSWER 42 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 15
 TI Fertile transgenic **barley** of different cultivars obtained by adjustment of bombardment conditions to tissue response.

L4 ANSWER 43 OF 75 CABA COPYRIGHT 2003 CABI
 TI Introducing enhanced levels of LTP in **barley** by genetic engineering.

L4 ANSWER 44 OF 75 CAPLUS COPYRIGHT 2003 ACS
 TI **stable transformation** of monocotyledenous plants involving DNA/protein complex and VirD2-mediated site-specific cleavage

L4 ANSWER 45 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 TI **Stable transformation** of **barley** via direct DNA uptake: Electroporation-and PEG-mediated protoplast transformation.

L4 ANSWER 46 OF 75 AGRICOLA DUPLICATE 16
 TI Fertile transgenic **barley** generated by direct DNA transfer to protoplasts.

L4 ANSWER 47 OF 75 MEDLINE DUPLICATE 17
 TI Comparison of different constitutive and inducible promoters for the overexpression of transgenes in *Arabidopsis thaliana*.

L4 ANSWER 48 OF 75 AGRICOLA DUPLICATE 18
 TI **Stable transformation of barley** callus using biolistic particle bombardment and the phosphinothricin acetyltransferase (bar) gene.

L4 ANSWER 49 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 19
 TI Gene specificity is maintained in transient expression assays with protoplasts derived from different tissues of **barley**.

L4 ANSWER 50 OF 75 AGRICOLA DUPLICATE 20
 TI Parameters influencing transient and **stable transformation of barley** (*Hordeum vulgare* L.) protoplasts.

=> d 14 42,43,45,46,48,50 bib

L4 ANSWER 42 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 15
 AN 97:102914 CABA
 DN 971607933
 TI Fertile transgenic **barley** of different cultivars obtained by adjustment of bombardment conditions to tissue response
 AU Koprek, T.; Hansch, R.; Nerlich, A.; Mendel, R. R.; Schulze, J.
 CS Botanical Institute, Technical University of Braunschweig, Humboldtstrasse 1, D-38106 Braunschweig, Germany.
 SO Plant Science (Limerick), (1996) Vol. 119, No. 1/2, pp. 79-91. 32 ref. ISSN: 0168-9452
 DT Journal
 LA English

L4 ANSWER 43 OF 75 CABA COPYRIGHT 2003 CABI
 AN 97:27441 CABA
 DN 971601798
 TI Introducing enhanced levels of LTP in **barley** by genetic engineering
 AU Sandager, L.
 CS Carlsberg Research Laboratory/University of Aarhus, Aarhus, Denmark.
 SO SP Rapport - Statens Planteavlfsforsog, (1996) Vol. 4, No. 2, pp. 18-19. 6 ref.
 DT Journal
 LA English

L4 ANSWER 45 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 1996:641 BIOSIS
 DN PREV199698572776
 TI **Stable transformation of barley** via direct DNA uptake: Electroporation-and PEG-mediated protoplast transformation.
 AU Lazzeri, Paul A.
 CS Biochem. Physiol. Dep., AFRC Inst. Arable Crops Res., Harpenden UK
 SO Jones, H. [Editor]. Methods in Molecular Biology, (1995) Vol. 49, pp. 95-106. Methods in Molecular Biology; Plant gene transfer and expression protocols.
 Publisher: Humana Press Inc. Suite 808, 999 Riverview Drive, Totowa, New Jersey 07512, USA.
 ISSN: 0097-0816. ISBN: 0-89603-321-X.
 DT Book
 LA English

L4 ANSWER 46 OF 75 AGRICOLA DUPLICATE 16
 AN 96:1092 AGRICOLA
 DN IND20490098

TI Fertile transgenic **barley** generated by direct DNA transfer to
 protoplasts.
 AU Funatsuki, H.; Kuroda, H.; Kihara, M.; Lazzeri, P.A.; Muller, E.; Lorz,
 H.; Kishinami, I.
 CS Hokkaido National Agricultural Experiment Station, Hokkaido, Japan.
 AV DNAL (442.8 Z8)
 SO Theoretical and applied genetics, Oct 1995. Vol. 91, No. 5. p. 707-712
 Publisher: Berlin; Springer-Verlag
 CODEN: THAGA6; ISSN: 0040-5752
 NTE Includes references
 CY West Berlin
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L4 ANSWER 48 OF 75 AGRICOLA DUPLICATE 18
 AN 95:31211 AGRICOLA
 DN IND20458808
 TI **Stable transformation** of **barley** callus using
 biolistic particle bombardment and the phosphinothricin acetyltransferase
 (bar) gene.
 AU Stiff, C.M.; Kilian, A.; Zhou, H.; Kudrna, D.A.; Kleinhofs, A.
 CS Washington State University, Pullman, WA.
 AV DNAL (QK725.P53)
 SO Plant cell, tissue and organ culture, Mar 1995. Vol. 40, No. 3. p. 243-248
 Publisher: Dordrecht, The Netherlands : Kluwer Academic Publishers.
 CODEN: PTCEDJ; ISSN: 0167-6857
 NTE Includes references
 CY Netherlands
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L4 ANSWER 50 OF 75 AGRICOLA DUPLICATE 20
 AN 95:53539 AGRICOLA
 DN IND20475331
 TI Parameters influencing transient and **stable**
transformation of **barley** (*Hordeum vulgare* L.)
 protoplasts.
 AU Zhang, J.; Tiwari, V.K.; Golds, T.J.; Blackhall, N.W.; Cocking, E.C.;
 Mulligan, B.J.; Power, J.B.; Davey, M.R.
 CS University of Nottingham, Nottingham, UK.
 AV DNAL (QK725.P53)
 SO Plant cell, tissue and organ culture, May 1995. Vol. 41, No. 2. p. 125-138
 Publisher: Dordrecht, The Netherlands : Kluwer Academic Publishers.
 CODEN: PTCEDJ; ISSN: 0167-6857
 NTE Includes references
 CY Netherlands
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

=> d 14 51-60 ti

L4 ANSWER 51 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 21
 TI Transformation studies in *Hordeum vulgare* using a highly
 regenerable microspore system.

L4 ANSWER 52 OF 75 MEDLINE DUPLICATE 22
 TI **Stable transformation** of **barley** via direct
 DNA uptake. Electroporation- and PEG-mediated protoplast transformation.

L4 ANSWER 53 OF 75 AGRICOLA DUPLICATE 23
 TI Secretion of a heat-stable fungal beta-glucanase from transgenic,

suspension-cultured **barley** cells. [Erratum: 1996, v. 2 (1), p. 89.]

- L4 ANSWER 54 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 24
TI Genetic engineering of potato starch composition: inhibition of amylose biosynthesis in tubers from transgenic potato lines by the expression of antisense sequences of the gene for granule-bound starch synthase.
- L4 ANSWER 55 OF 75 CABA COPYRIGHT 2003 CABI
TI Genetic engineering of wheat and **barley**.
- L4 ANSWER 56 OF 75 MEDLINE DUPLICATE 25
TI The promoter of the **barley** aleurone-specific gene encoding a putative 7 kDa lipid transfer protein confers aleurone cell-specific expression in transgenic rice.
- L4 ANSWER 57 OF 75 MEDLINE DUPLICATE 26
TI Transgenic cereal (tritordeum) plants obtained at high efficiency by microprojectile bombardment of inflorescence tissue.
- L4 ANSWER 58 OF 75 AGRICOLA DUPLICATE 27
TI Rice triosephosphate isomerase gene 5' sequence directs beta-glucuronidase activity in transgenic tobacco but requires an intron for expression in rice.
- L4 ANSWER 59 OF 75 CABA COPYRIGHT 2003 CABI
TI An analysis on the esterase isoenzyme of the variants derived from the common wheat with introduced DNA from **barley**.
- L4 ANSWER 60 OF 75 CABA COPYRIGHT 2003 CABI
TI Approaches to genetic transformation in cereals.

=> d 14 51, 52, 55, 60 bib

- L4 ANSWER 51 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 21
AN 96:25067 CABA
DN 961600906
TI Transformation studies in **Hordeum** vulgare using a highly regenerable microspore system
AU Harwood, W. A.; Bean, S. J.; Chen, D. F.; Mullineaux, P. M.; Snape, J. W.; Cassells, A. C. [EDITOR]; Jones, P. W. [EDITOR]
CS John Innes Centre, Colney, Norwich NR4 7UH, UK.
SO Euphytica, (1995) Vol. 85, No. 1/3, pp. 113-118. 24 ref.
Meeting Info.: Eucarpia Genetic Manipulation in Plant Breeding section meeting, held in Cork, Irish Republic, 11-14 September 1994.
ISSN: 0014-2336
DT Conference Article; Journal
LA English
- L4 ANSWER 52 OF 75 MEDLINE DUPLICATE 22
AN 96130738 MEDLINE
DN 96130738 PubMed ID: 8563832
TI **Stable transformation** of **barley** via direct DNA uptake. Electroporation- and PEG-mediated protoplast transformation.
AU Lazzeri P A
CS Biochemistry and Physiology Department, AFRC Institute of Arable Crops Research, Harpenden, UK.
SO METHODS IN MOLECULAR BIOLOGY, (1995) 49 95-106. Ref: 20
Journal code: 9214969. ISSN: 1064-3745.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English

FS Priority Journals
 EM 199603
 ED Entered STN: 19960315
 Last Updated on STN: 19960315
 Entered Medline: 19960305

L4 ANSWER 55 OF 75 CABA COPYRIGHT 2003 CABI
 AN 95:9200 CABA
 DN 941610283
 TI Genetic engineering of wheat and **barley**
 AU Kartha, K. K.; Nehra, N. S.; Chibbar, R. N.; Henry, R. J. [EDITOR];
 Ronalds, J. A. [EDITOR]
 CS Plant Biotechnology Institute, National Research Council, 110 Gymnasium
 Place, Saskatoon, Saskatchewan, S7N 0W9, Canada.
 SO (1994) pp. 21-30. 21 ref.
 Publisher: Plenum Publishing Corporation. New York
 Meeting Info.: Improvement of cereal quality by genetic engineering.
 Proceedings of the Royal Australian Chemistry Institute, Cereal Chemistry
 Division Symposium on Improvement of Cereal Quality by Genetic
 Engineering, Sydney, Australia, 12-16 September 1993.
 ISBN: 0-306-44721-5
 CY United States
 DT Miscellaneous
 LA English

L4 ANSWER 60 OF 75 CABA COPYRIGHT 2003 CABI
 AN 95:9199 CABA
 DN 941610282
 TI Approaches to genetic transformation in cereals
 AU Scott, K. J.; He, D. G.; Karunaratne, S.; Mouradov, A.; Mouradova, E.;
 Yang, Y. M.; Henry, R. J. [EDITOR]; Ronalds, J. A. [EDITOR]
 CS Department of Biochemistry, University of Queensland, St. Lucia 4072,
 Australia.
 SO (1994) pp. 15-20. 9 ref.
 Publisher: Plenum Publishing Corporation. New York
 Meeting Info.: Improvement of cereal quality by genetic engineering.
 Proceedings of the Royal Australian Chemistry Institute, Cereal Chemistry
 Division Symposium on Improvement of Cereal Quality by Genetic
 Engineering, Sydney, Australia, 12-16 September 1993.
 ISBN: 0-306-44721-5
 CY United States
 DT Conference Article
 LA English

=> d 14 61-75 ti

L4 ANSWER 61 OF 75 MEDLINE DUPLICATE 28
 TI Transient and stable expression of gusA fusions with rice genes in rice,
barley and perennial ryegrass.

L4 ANSWER 62 OF 75 MEDLINE DUPLICATE 29
 TI Transient and stable expression of gusA fusions with rice genes in rice,
barley and perennial ryegrass.

L4 ANSWER 63 OF 75 AGRICOLA DUPLICATE 30
 TI The effect of different promoter-sequences on transient expression of gus
 reporter gene in cultured **barley** (*Hordeum vulgare* L.)
 cells.

L4 ANSWER 64 OF 75 AGRICOLA DUPLICATE 31
 TI **Stable transformation** of **barley** tissue
 culture by particle bombardment.

L4 ANSWER 65 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI **Stable transformation of barley tissue**
culture by particle bombardment.

L4 ANSWER 66 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Method for genetic transformation of tissues from monocotyledonous plants

L4 ANSWER 67 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Integrative transformation of monocotyledonous plants

L4 ANSWER 68 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 32
TI Applications of an optimized monocot expression vector in studying gene
expression and **stable transformation of barley**

L4 ANSWER 69 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Methods and compositions for the production of **stably**
transformed, fertile monocotyledonous plants and cells

L4 ANSWER 70 OF 75 AGRICOLA DUPLICATE 33
TI **Stable transformation of barley** via
PEG-induced direct DNA uptake into protoplasts.

L4 ANSWER 71 OF 75 CABA COPYRIGHT 2003 CABI
TI **Stable transformation of barley** using a
highly-efficient protoplast system.

L4 ANSWER 72 OF 75 CABA COPYRIGHT 2003 CABI
TI Genetic engineering of crop plants.

L4 ANSWER 73 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 34
TI Agrobacterium- and microprojectile-mediated viral DNA delivery into
barley microspore-derived cultures.

L4 ANSWER 74 OF 75 AGRICOLA
TI Regenerable suspension and protoplast cultures of **barley** and
stable transformation via DNA uptake into protoplasts.

L4 ANSWER 75 OF 75 CAPLUS COPYRIGHT 2003 ACS
TI Biologically contained autonomously replicating, non-transmissible viral
expression vectors

=> d 14 64,65,66,67,68,69,70,71,73,74 bib

L4 ANSWER 64 OF 75 AGRICOLA DUPLICATE 31
AN 93:91004 AGRICOLA
DN IND20357289
TI **Stable transformation of barley tissue**
culture by particle bombardment.

AU Ritala, A.; Mannonen, L.; Aspegren, K.; Salmenkallio-Marttila, M.; Kurten,
U.; Hannus, R.; Lozano, J.M.; Teeri, T.H.; Kauppinen, V.
AV DNAL (QK725.P54)
SO Plant cell reports, 1993. Vol. 12, No. 7/8. p. 435-440
Publisher: Berlin, W. Ger. : Springer International.
CODEN: PCRPD8; ISSN: 0721-7714

NTE Includes references
CY Germany
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L4 ANSWER 65 OF 75 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1993:365875 BIOSIS
DN PREV199396051550
TI **Stable transformation of barley tissue**

culture by particle bombardment.
 AU Ritala, A. (1); Mannonen, L.; Aspegren, K.; Salmenkallio-Marttila, M.;
 Kurten, U.; Hannus, R.; Mendez Lozano, J.; Teeri, T. H.; Kauppinen, V.
 CS (1) VTT, Biotechnical Lab., PL 202, SF-02151 Espoo Finland
 SO Plant Cell Reports, (1993) Vol. 12, No. 7-8, pp. 434-440.
 ISSN: 0721-7714.
 DT Article
 LA English

L4 ANSWER 66 OF 75 CAPLUS COPYRIGHT 2003 ACS
 AN 1992:606344 CAPLUS
 DN 117:206344
 TI Method for genetic transformation of tissues from monocotyledonous plants
 IN Tallberg, Anneli; Thoern, Eva; Walden, Richard
 PA Svaloe AB, Swed.
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9214828	A1	19920903	WO 1991-SE102	19910214
	W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR,				
	LK, LU, MC, MG, MW, NL, NO, PL, RO, SD, SE, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT,				
	LU, ML, MR, NL, SE, SN, TD, TG				
	AU 9175412	A1	19920915	AU 1991-75412	19910214
PRAI	WO 1991-SE102		19910214		

L4 ANSWER 67 OF 75 CAPLUS COPYRIGHT 2003 ACS
 AN 1992:528379 CAPLUS
 DN 117:128379
 TI Integrative transformation of monocotyledonous plants
 IN D'Halluin, Kathleen; Gobel, Elke
 PA Plant Genetic Systems N. V., Belg.
 SO PCT Int. Appl., 76 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9209696	A1	19920611	WO 1991-EP2198	19911121
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MC, MG, MN, MW,				
	NO, RO, SD, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,				
	GR, IT, LU, ML, MR, NL, SE, SN				
	AU 9189142	A1	19920625	AU 1991-89142	19911121
	EP 558676	A1	19930908	EP 1992-902509	19911121
	EP 558676	B1	20000419		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06502533	T2	19940324	JP 1992-500303	19911121
	JP 3234598	B2	20011204		
	EP 955371	A2	19991110	EP 1999-201052	19911121
	EP 955371	A3	19991201		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 191931	E	20000515	AT 1992-902509	19911121
	ES 2147551	T3	20000916	ES 1992-902509	19911121
	US 5641664	A	19970624	US 1993-64121	19930623
	US 5712135	A	19980127	US 1995-478015	19950607
	US 6002070	A	19991214	US 1995-475975	19950607
	US 6140553	A	20001031	US 1998-26673	19980220
	US 6074877	A	20000613	US 1998-84889	19980528
PRAI	EP 1990-403332	A	19901123		

EP 1991-401888 A 19910708
 EP 1992-902509 A3 19911121
 WO 1991-EP2198 A 19911121
 US 1993-64121 A1 19930623
 US 1995-475975 A3 19950607
 US 1997-135507P P 19970220

L4 ANSWER 68 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 32
 AN 92:147669 CABA
 DN 921634140
 TI Applications of an optimized monocot expression vector in studying gene
 expression and **stable transformation of barley**
 AU Maas, C.; Schell, J.; Steinbiss, H. H.
 CS Max-Planck-Institut für Züchtungsforschung, Carl-von-Linne Weg 10, 5000
 Köln 30, Germany.
 SO Physiologia Plantarum, (1992) Vol. 85, No. 2, pp. 367-373. Eighth
 international protoplast symposium, Uppsala, Sweden, 16-20 June 1991. 28
 ref.
 ISSN: 0031-9317
 DT Conference Article; Journal
 LA English

L4 ANSWER 69 OF 75 CAPLUS COPYRIGHT 2003 ACS
 AN 1991:242093 CAPLUS
 DN 114:242093
 TI Methods and compositions for the production of **stably**
transformed, fertile monocotyledonous plants and cells
 IN Adams, Thomas R.; Adams, Whitney R., Jr.; Chambers, Sheryl A.; Daines,
 Richard J.; Gordon-Kamm, William J.; Kausch, Albert P.; Krueger, Roger W.;
 Lemaux, Peggy G.; Mackey, Catherine J.; et al.
 PA DeKalb Plant Genetics, USA
 SO PCT Int. Appl., 110 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9102071	A2	19910221	WO 1990-US4462	19900808
	WO 9102071	A3	19920514		
	W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	CA 2064761	AA	19910210	CA 1990-2064761	19900808
	AU 9062903	A1	19910311	AU 1990-62903	19900808
	AU 644097	B2	19931202		
	EP 485506	A1	19920520	EP 1990-912722	19900808
	EP 485506	B1	19971112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	BR 9007588	A	19920630	BR 1990-7588	19900808
	HU 60781	A2	19921028	HU 1992-394	19900808
	HU 60781	B	19921028		
	JP 05501352	T2	19930318	JP 1990-512239	19900808
	AT 160174	E	19971115	AT 1990-912722	19900808
	EP 814166	A2	19971229	EP 1997-108223	19900808
	EP 814166	A3	19980513		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	ES 2110417	T3	19980216	ES 1990-912722	19900808
	US 5874265	A	19990223	US 1995-446931	19950523
	US 5919675	A	19990706	US 1995-446933	19950523
	US 5969213	A	19991019	US 1995-446930	19950523
	US 6399861	B1	20020604	US 1995-447985	19950523
PRAI	US 1989-392176	A	19890809		
	US 1990-513298	A	19900417		

EP 1990-912722	A3	19900808
WO 1990-US4462	A	19900808
US 1990-565844	A1	19900809
US 1993-113561	A3	19930825
US 1994-233067	A1	19940426

L4 ANSWER 70 OF 75 AGRICOLA DUPLICATE 33
 AN 91:59414 AGRICOLA
 DN IND91031647
 TI **Stable transformation of barley** via
 PEG-induced direct DNA uptake into protoplasts.
 AU Lazzeri, P.A.; Brettschneider, R.; Luhrs, R.; Lorz, H.
 CS University of Hamburg, Hamburg, FRG
 AV DNAL (442.8 Z8)
 SO Theoretical and applied genetics, 1991. Vol. 81, No. 4. p. 437-444
 Publisher: Berlin, W. Ger. : Springer International.
 CODEN: THAGA6; ISSN: 0040-5752
 NTE Includes references.
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L4 ANSWER 71 OF 75 CABA COPYRIGHT 2003 CABI
 AN 92:31076 CABA
 DN 921695283
 TI **Stable transformation of barley** using a
 highly-efficient protoplast system
 AU Schulze, J.; Nerlich, A.; Ryschka, S.; Steinbiss, H. H.; Mendel, R. R.
 CS Institute of Breeding Research, Quedlinburg, Germany.
 SO Physiologia Plantarum, (1991) Vol. 82, No. 1, pp. A32. also Eighth
 international protoplast symposium.
 ISSN: 0031-9317
 DT Conference Article; Abstract
 LA English

L4 ANSWER 73 OF 75 CABA COPYRIGHT 2003 CABI DUPLICATE 34
 AN 90:106470 CABA
 DN 901615116
 TI Agrobacterium- and microprojectile-mediated viral DNA delivery into
barley microspore-derived cultures
 AU Creissen, G.; Smith, C.; Francis, R.; Reynolds, H.; Mullineaux, P.
 CS John Innes Institute, Colney Lane, Norwich NR4 7UH, UK.
 SO Plant Cell Reports, (1990) Vol. 8, No. 11, pp. 680-683. 34 ref.
 ISSN: 0721-7714
 DT Journal
 LA English

L4 ANSWER 74 OF 75 AGRICOLA
 AN 90:77118 AGRICOLA
 DN IND90048801
 TI Regenerable suspension and protoplast cultures of **barley** and
stable transformation via DNA uptake into protoplasts.
 AU Lazzeri, P.A.; Lorz, H.
 CS Max-Planck Institut fur Zuchtforschung, Cologne, W. Germany
 AV DNAL (SB123.57.L93)
 SO [Genetic engineering in crop plants / edited by G.W. Lycett, D. Grierson],
 p. 231-238 ill
 Publisher: Boston : Butterworths, 1990.
 ISBN: 0408047798.
 NTE Paper presented at the "49th Nottingham Easter School in Agricultural
 Science on Agricultural Engineering of Crop Plants," April 17-21, Sutton
 Bonington, United Kingdom.
 Includes references.
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension

LA English

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
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L2 4462 S STABLE(W)TRANSFORMATION OR STABLY(W)TRANSFORMED
L3 179 S L1 AND L2
L4 75 DUPLICATE REMOVE L3 (104 DUPLICATES REMOVED)

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NEWS 6 MAR 03 MEDLINE and LMEDLINE reloaded
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NEWS 8 MAR 03 FRANCEPAT now available on STN
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NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
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NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
available
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NEWS 15 APR 27 NLDB: New search and display fields available
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and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20 May 17 FRFULL now available on STN

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=> s (lemaux, p? or lemaux p?)/au
L1 328 (LEMAUX, P? OR LEMAU P?)/AU

=> s (mcelroy, d? or mcelroy d?)/au
L2 383 (MCELROY, D? OR MCELROY D?)/AU

=> s (koprek, t? or koprek t?)/au
L3 43 (KOPREK, T? OR KOPREK T?)/AU

=> s l1 and l2 and l3
L4 20 L1 AND L2 AND L3

=> s l4 and (barley or hordeum)

L5 20 L4 AND (BARLEY OR HORDEUM)

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PROCESSING COMPLETED FOR L5

L6 5 DUPLICATE REMOVE L5 (15 DUPLICATES REMOVED)

=> d 16 1-5 ti

L6 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1
TI Transposon-mediated single-copy gene delivery leads to increased transgene expression stability in **barley**.

L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Transposable elements as efficient vehicles for tagging and gene delivery in **barley**.

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Transposon tagging and gene delivery in small grain cereals

L6 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 2
TI An efficient method for dispersing Ds elements in the **barley** genome as a tool for determining gene function.

L6 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3
TI Negative selection systems for transgenic **barley** (**Hordeum vulgare** L.): comparison of bacterial *codA*- and cytochrome P450 gene-mediated selection.

=> d 16 1-5 bib

L6 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1
AN 2001447261 MEDLINE
DN PubMed ID: 11244115
TI Transposon-mediated single-copy gene delivery leads to increased transgene expression stability in **barley**.

AU **Koprek T**; Rangel S; **McElroy D**; Louwerse J D;
Williams-Carrier R E; **Lemaux P G**

CS Department of Plant and Microbial Biology, University of California, Berkeley, CA 94720, USA.

SO Plant physiology, (2001 Mar) 125 (3) 1354-62.
Journal code: 0401224. ISSN: 0032-0889.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200108

ED Entered STN: 20010813

Last Updated on STN: 20010813

Entered Medline: 20010809

L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2003:41448 BIOSIS

DN PREV200300041448

TI Transposable elements as efficient vehicles for tagging and gene delivery in **barley**.

AU **Koprek, Thomas** [Reprint Author]; Rangel, Sergio [Reprint

Author]; **McElroy, David** [Reprint Author]; Louwerse, Jeanine
 [Reprint Author]; Williams-Carrier, Rosalind [Reprint Author];
Lemaux, Peggy G. [Reprint Author]
 CS Department of Plant and Microbial Biology, University of California at
 Berkeley, Berkeley, CA, USA
 lemauxpg@nature.berkeley.edu
 SO Plant Biology (Rockville), (2001) Vol. 2001, pp. 140-141. print.
 Meeting Info.: Joint Annual Meetings of the American Society of Plant
 Biologists and the Canadian Society of Plant Physiologists. Providence,
 Rhode Island, USA. July 21-25, 2001. American Society of Plant Biologists;
 Canadian Society of Plant Physiologists.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 15 Jan 2003
 Last Updated on STN: 15 Jan 2003

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:161472 CAPLUS
 DN 132:204014
 TI Transposon tagging and gene delivery in small grain cereals
 IN **Lemaux, Peggy; McElroy, David; Koprek, Thomas**
 PA The Regents of the University of California, USA
 SO PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000012734	A1	20000309	WO 1999-US19648	19990827
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9957891 A1 20000321 AU 1999-57891 19990827				
PRAI	US 1998-98221P	P	19980828		
	WO 1999-US19648	W	19990827		
RE.CNT	4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L6 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 2
 AN 2001081495 MEDLINE
 DN PubMed ID: 11069699
 TI An efficient method for dispersing Ds elements in the **barley**
 genome as a tool for determining gene function.
 AU **Koprek T; McElroy D; Louwerse J; Williams-Carrier R;**
Lemaux P G
 CS Department of Plant and Microbial Biology, University of California,
 Berkeley, CA 94720, USA.. tkoprek@nature.berkeley.edu
 SO Plant journal : for cell and molecular biology, (2000 Oct) 24 (2) 253-63.
 Journal code: 9207397. ISSN: 0960-7412.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200101
 ED Entered STN: 20010322
 Last Updated on STN: 20010322
 Entered Medline: 20010105

L6 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3
 AN 2000040042 MEDLINE
 DN PubMed ID: 10571857
 TI Negative selection systems for transgenic **barley** (**Hordeum vulgare** L.): comparison of bacterial *codA*- and cytochrome P450 gene-mediated selection.
 AU **Koprek T; McElroy D**; Louwerse J; Williams-Carrier R; **Lemaux P G**
 CS Department of Plant and Microbial Biology, University of California, Berkeley 94720-3102, USA.. tkoprek@nature.berkeley.edu
 SO Plant journal : for cell and molecular biology, (1999 Sep) 19 (6) 719-26. Journal code: 9207397. ISSN: 0960-7412.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200003
 ED Entered STN: 20000330
 Last Updated on STN: 20000330
 Entered Medline: 20000321

=> d l1 or l2 or l3
 L2 IS NOT VALID HERE
 For an explanation, enter "HELP DISPLAY".

=> s l1 or l2 or l3
 L7 702 L1 OR L2 OR L3

=> s l7 not l4
 L8 682 L7 NOT L4

=> s l8 and (barley or hordeum)
 L9 170 L8 AND (BARLEY OR HORDEUM)

=> s l9 and transgenic
 L10 135 L9 AND TRANSGENIC

=> s l10 and t2
 L11 15 L10 AND T2

=> duplicate remove l11
 DUPLICATE PREFERENCE IS 'AGRICOLA, CABA, CAPLUS, BIOSIS'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
 PROCESSING COMPLETED FOR L11
 L12 6 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)

=> d l12 1-6 ti

L12 ANSWER 1 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1
 TI Endosperm-specific expression of green fluorescent protein driven by the hordein promoter is stably inherited in **transgenic barley** (**Hordeum vulgare**) plants.

L12 ANSWER 2 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 2
 TI Inheritance of tissue-specific expression of **barley** hordein promoter-uidA fusions in **transgenic barley** plants.

L12 ANSWER 3 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 3
 TI Genetic transformation of commercial cultivars of oat (*Avena sativa* L.) and **barley** (**Hordeum vulgare** L.) using in vitro shoot meristematic cultures derived from germinated seedlings.

L12 ANSWER 4 OF 6 AGRICOLA Compiled and distributed by the National

Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 4

TI Somaclonal variation in the progeny of **transgenic barley**

L12 ANSWER 5 OF 6 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 5

TI Agrobacterium tumefaciens-mediated **barley** transformation.

L12 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

TI Coat protein-mediated resistance to isolates of **barley** yellow dwarf in oats and **barley**

=> d l12 1-6 bib

L12 ANSWER 1 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1

AN 2002:142996 CABA

DN 20023080841

TI Endosperm-specific expression of green fluorescent protein driven by the hordein promoter is stably inherited in **transgenic barley** (*Hordeum vulgare*) plants

AU Cho, M. J.; Choi, H. W.; Jiang, W.; Ha, C. D.; Lemaux, P. G.

CS Department of Plant and Microbial Biology, University of California, Berkeley, CA 94720, USA. mjcho@nature.berkeley.edu

SO Physiologia Plantarum, (2002) Vol. 115, No. 1, pp. 144-154. 37 ref.

Publisher: Blackwell Publishing. Oxford

ISSN: 0031-9317

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20020905

Last Updated on STN: 20020905

L12 ANSWER 2 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 2

AN 1999:123384 CABA

DN 19991609155

TI Inheritance of tissue-specific expression of **barley** hordein promoter-uidA fusions in **transgenic barley** plants

AU Cho, M. J.; Choi, H. W.; Buchanan, B. B.; Lemaux, P. G.

CS Department of Plant and Microbial Biology, University of California, Berkeley, CA 94720, USA.

SO Theoretical and Applied Genetics, (1999) Vol. 98, No. 8, pp. 1253-1262. 33 ref.

ISSN: 0040-5752

DT Journal

LA English

ED Entered STN: 19990908

Last Updated on STN: 19990908

L12 ANSWER 3 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 3

AN 2000:5739 CABA

DN 19991613104

TI Genetic transformation of commercial cultivars of oat (*Avena sativa* L.) and **barley** (*Hordeum vulgare* L.) using in vitro shoot meristematic cultures derived from germinated seedlings

AU Zhang, S.; Cho, M. J.; Koprek, T.; Yun, R.; Bregitzer, P.;

Lemaux, P. G.

CS Department of Plant and Microbial Biology, University of California, Berkeley, CA 94720, USA.

SO Plant Cell Reports, (1999) Vol. 18, No. 12, pp. 959-966. 35 ref.

ISSN: 0721-7714

DT Journal
 LA English
 ED Entered STN: 20000117
 Last Updated on STN: 20000117

L12 ANSWER 4 OF 6 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2004) on STN DUPLICATE 4

AN 1999:1540 AGRICOLA
 DN IND21807610
 TI Somaclonal variation in the progeny of **transgenic barley**

AU Bregitzer, P.; Halbert, S.E.; **Lemaux, P.G.**
 CS USDA, ARS, National Small Grains Germplasm Research Facility, Aberdeen,
 ID.
 SO Theoretical and applied genetics, Mar 1998. Vol. 96, No. 3/4. p. 421-425
 Publisher: Berlin; Springer-Verlag
 CODEN: THAGA6; ISSN: 0040-5752

NTE Includes references
 CY West Berlin
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L12 ANSWER 5 OF 6 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2004) on STN DUPLICATE 5

AN 1998:28697 AGRICOLA
 DN IND20703049
 TI Agrobacterium tumefaciens-mediated **barley** transformation.
 AU Tingay, S.; **McElroy, D.**; Kalla, R.; Fieg, S.; Wang, M.B.;
 Thornton, S.; Brettell, R.
 SO The Plant journal : for cell and molecular biology, June 1997. Vol. 11,
 No. 6. p. 1369-1376
 Publisher: Oxford : Blackwell Sciences Ltd.
 ISSN: 0960-7412

NTE Includes references
 CY England; United Kingdom
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L12 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:57982 CAPLUS
 DN 128:190495
 TI Coat protein-mediated resistance to isolates of **barley** yellow
 dwarf in oats and **barley**

AU McGrath, P. F.; Vincent, J. R.; Lei, C.-H.; Pawlowski, W. P.; Torbert, K.
 A.; Gu, W.; Kaeppler, H. F.; Wan, Y.; **Lemaux, P. G.**; Rines, H.
 R.; Somers, D. A.; Larkins, B. A.; Lister, R. M.
 CS Department of Botany and Plant Pathology, Purdue University, West
 Lafayette, IN, 47907, USA
 SO European Journal of Plant Pathology (1997), 103(8), 695-710
 CODEN: EPLPEH; ISSN: 0929-1873

PB Kluwer Academic Publishers
 DT Journal
 LA English

RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 17:12:25 ON 07 JUN 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
17:12:37 ON 07 JUN 2004

L1 328 S (LEMAUX, P? OR LEMAX P?)/AU
L2 383 S (MCELROY, D? OR MCELROY D?)/AU
L3 43 S (KOPREK, T? OR KOPREK T?)/AU
L4 20 S L1 AND L2 AND L3
L5 20 S L4 AND (BARLEY OR HORDEUM)
L6 5 DUPLICATE REMOVE L5 (15 DUPLICATES REMOVED)
L7 702 S L1 OR L2 OR L3
L8 682 S L7 NOT L4
L9 170 S L8 AND (BARLEY OR HORDEUM)
L10 135 S L9 AND TRANSGENIC
L11 15 S L10 AND T2
L12 6 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)

=> s l12 and transposon

L13 0 L12 AND TRANSPOSON

=> s barley and transgenic and t2

L14 51 BARLEY AND TRANSGENIC AND T2

=> s l14 not l7

L15 36 L14 NOT L7

=> s l15 and transposon

L16 0 L15 AND TRANSPOSON

=> duplicate remove l15

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L15

L17 16 DUPLICATE REMOVE L15 (20 DUPLICATES REMOVED)

=> d l17 11-16 ti

L17 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN

TI Using enzymes of carotenoid biosynthesis to alter the carotenoid content
and fatty acid profile of seeds

L17 ANSWER 12 OF 16 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 6

TI Extreme reduction of disease in oats transformed with the 5' half of the
barley yellow dwarf virus-PAV genome.

L17 ANSWER 13 OF 16 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 7

TI Transformation and expression of a stilbene synthase gene of Vitis
vinifera L. in **barley** and wheat for increased fungal resistance.

L17 ANSWER 14 OF 16 CABA COPYRIGHT 2004 CABI on STN

TI **Transgenic** wheat plants resistant to **barley** yellow
dwarf virus obtained by pollen tube pathway-mediated transformation.

L17 ANSWER 15 OF 16 CABA COPYRIGHT 2004 CABI on STN

TI **Transgenic barley** by particle bombardment. Inheritance
of the transferred gene and characteristics of **transgenic**
barley plants.

L17 ANSWER 16 OF 16 MEDLINE on STN

DUPLICATE 8

TI Fertile **transgenic barley** to particle bombardment of
immature embryos.

=> d 117 13, 15, 16 bib

L17 ANSWER 13 OF 16 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 7

AN 1999:10838 AGRICOLA

DN IND21963600

TI Transformation and expression of a stilbene synthase gene of *Vitis*
vinifera L. in **barley** and wheat for increased fungal resistance.

AU Leckband, G.; Lorz, H.

CS Universitat Hamburg, Hamburg, Germany.

AV DNAL (442.8 Z8)

SO Theoretical and applied genetics, June 1998. Vol. 96, No. 8. p. 1004-1012
Publisher: Berlin; Springer-Verlag
CODEN: THAGA6; ISSN: 0040-5752

NTE Includes references

CY West Berlin

DT Article

FS Non-U.S. Imprint other than FAO

LA English

L17 ANSWER 15 OF 16 CABA COPYRIGHT 2004 CABI on STN

AN 96:25062 CABA

DN 19961600901

TI **Transgenic barley** by particle bombardment. Inheritance
of the transferred gene and characteristics of **transgenic**
barley plants

AU Ritala, A.; Aikasalo, R.; Aspergren, K.; Salmenkallio-Marttila, M.;
Akerman, S.; Mannonen, L.; Kurten, U.; Puupponen-Pimia, R.; Teeri, T. H.;
Kauppinen, V.; Cassells, A. C. [EDITOR]; Jones, P. W. [EDITOR]

CS VTT, Biotechnology and Food Research, P.O. Box 1505, FIN-02044 VTT,
Finland.

SO Euphytica, (1995) Vol. 85, No. 1/3, pp. 81-88. 24 ref.

Price: Conference paper; Journal article .

Meeting Info.: Eucarpia Genetic Manipulation in Plant Breeding section
meeting, held in Cork, Irish Republic, 11-14 September 1994.

ISSN: 0014-2336

DT Journal

LA English

ED Entered STN: 19960216

Last Updated on STN: 19960216

L17 ANSWER 16 OF 16 MEDLINE on STN

DUPLICATE 8

AN 94154252 MEDLINE

DN PubMed ID: 8111034

TI Fertile **transgenic barley** to particle bombardment of
immature embryos.

AU Ritala A; Aspegren K; Kurten U; Salmenkallio-Marttila M; Mannonen L;
Hannus R; Kauppinen V; Teeri T H; Enari T M

CS VTT, Biotechnical Laboratory, Espoo, Finland.

SO Plant molecular biology, (1994 Jan) 24 (2) 317-25.

Journal code: 9106343. ISSN: 0167-4412.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199403

ED Entered STN: 19940406

Last Updated on STN: 19980206

Entered Medline: 19940325

=> d 117 5-10 ti

- L17 ANSWER 5 OF 16 CABA COPYRIGHT 2004 CABI on STN
TI Induction of androgenesis in **transgenic barley** plants
EUR 19691.
- L17 ANSWER 6 OF 16 MEDLINE on STN DUPLICATE 4
TI Accumulation of **barley** stripe mosaic virus is significantly
reduced in **transgenic** wheat plants expressing a bacterial
ribonuclease.
- L17 ANSWER 7 OF 16 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 5
TI Altered functional properties of tritordeum by transformation with HMW
glutenin subunit genes.
- L17 ANSWER 8 OF 16 CABA COPYRIGHT 2004 CABI on STN
TI A population of wheat and tritordeum transformants showing a high degree
of marker gene stability and heritability.
- L17 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
TI Commercial production of aprotinin in **transgenic** maize seeds
- L17 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
TI An amino acid-substituted analog of Brazil nut 2S albumin with an
increased content of essential amino acids

=> d 117 5,7,8 bib

- L17 ANSWER 5 OF 16 CABA COPYRIGHT 2004 CABI on STN
AN 2002:142193 CABA
DN 20023077485
TI Induction of androgenesis in **transgenic barley** plants
EUR 19691
AU Mullerova, E.; Novotny, J.; Vagera, J.; Harwood, W. A.; Ohnoutkova, L.;
Bohanec, B. [EDITOR]
CS Institute of Experimental Botany, Academy of Sciences of the Czech
Republic, Sokolovska 6, CZ-772 00 Olomouc, Czech Republic.
lidaoh@risc.upol.cz
SO Biotechnological approaches for utilisation of gametic cells. COST 824:
Final Meeting, Bled, Slovenia, 1-5 July 2000, (2001) pp. 29-32. 8 ref.
Publisher: Office for Official Publications of the European Community.
Luxembourg
Price: Book chapter; Conference paper .
Meeting Info.: Biotechnological approaches for utilisation of gametic
cells. COST 824: Final Meeting, Bled, Slovenia, 1-5 July 2000.
ISBN: 92-894-0225-3
CY Luxembourg
DT Journal
LA English
ED Entered STN: 20020905
Last Updated on STN: 20020905
- L17 ANSWER 7 OF 16 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 5
AN 1999:163433 CABA
DN 19991612570
TI Altered functional properties of tritordeum by transformation with HMW
glutenin subunit genes
AU Rooke, L.; Barro, F.; Tatham, A. S.; Fido, R.; Steele, S.; Bekes, F.;
Gras, P.; Martin, A.; Lazzeri, P. A.; Shewry, P. R.; Barcelo, P.
CS IACR-Rothamsted, Harpenden, Herts, AL5 2JQ, UK.
SO Theoretical and Applied Genetics, (1999) Vol. 99, No. 5, pp. 851-858. 30
ref.

ISSN: 0040-5752
DT Journal
LA English
ED Entered STN: 19991208
Last Updated on STN: 19991208

L17 ANSWER 8 OF 16 CABA COPYRIGHT 2004 CABI on STN
AN 1999:163424 CABA
DN 19991612561
TI A population of wheat and tritordeum transformants showing a high degree
of marker gene stability and heritability
AU Cannell, M. E.; Doherty, A.; Lazzeri, P. A.; Barcelo, P.
CS Biochemistry and Physiology Department, IACR-Rothamsted, Harpenden, Herts,
AL5 2JQ, UK.
SO Theoretical and Applied Genetics, (1999) Vol. 99, No. 5, pp. 772-784. 22
ref.
ISSN: 0040-5752
DT Journal
LA English
ED Entered STN: 19991208
Last Updated on STN: 19991208

=> d his

(FILE 'HOME' ENTERED AT 17:12:25 ON 07 JUN 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
17:12:37 ON 07 JUN 2004

L1 328 S (LEMAUX, P? OR LEMAX P?)/AU
L2 383 S (MCELROY, D? OR MCELROY D?)/AU
L3 43 S (KOPREK, T? OR KOPREK T?)/AU
L4 20 S L1 AND L2 AND L3
L5 20 S L4 AND (BARLEY OR HORDEUM)
L6 5 DUPLICATE REMOVE L5 (15 DUPLICATES REMOVED)
L7 702 S L1 OR L2 OR L3
L8 682 S L7 NOT L4
L9 170 S L8 AND (BARLEY OR HORDEUM)
L10 135 S L9 AND TRANSGENIC
L11 15 S L10 AND T2
L12 6 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)
L13 0 S L12 AND TRANSPOSON
L14 51 S BARLEY AND TRANSGENIC AND T2
L15 36 S L14 NOT L7
L16 0 S L15 AND TRANSPOSON
L17 16 DUPLICATE REMOVE L15 (20 DUPLICATES REMOVED)

=> file uspatfull
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
56.85	57.06

FILE 'USPATFULL' ENTERED AT 17:21:13 ON 07 JUN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 3 Jun 2004 (20040603/PD)
FILE LAST UPDATED: 3 Jun 2004 (20040603/ED)
HIGHEST GRANTED PATENT NUMBER: US6745393
HIGHEST APPLICATION PUBLICATION NUMBER: US2004107471
CA INDEXING IS CURRENT THROUGH 3 Jun 2004 (20040603/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 3 Jun 2004 (20040603/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2004

>>> USPAT2 is now available. USPATFULL contains full text of the <<<


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>>> original, i.e., the earliest published granted patents or      <<<
>>> applications.  USPAT2 contains full text of the latest US      <<<
>>> publications, starting in 2001, for the inventions covered in   <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent           <<<
>>> publications.  The publication number, patent kind code, and    <<<
>>> publication date for all the US publications for an invention   <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.                                                       <<<

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>>> enter this cluster.                                             <<<
>>>                                                                    <<<
>>> Use USPATALL when searching terms such as patent assignees,     <<<
>>> classifications, or claims, that may potentially change from    <<<
>>> the earliest to the latest publication.                         <<<

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```

=> s barley(s)transgenic
      14701 BARLEY
      26891 TRANSGENIC
L18    1591 BARLEY(S)TRANSGENIC

=> s l18 and t2
      84579 T2
L19    113 L18 AND T2

=> s l19 and barley(s)transgenic(s)T2
      14701 BARLEY
      26891 TRANSGENIC
      84579 T2
      2 BARLEY(S)TRANSGENIC(S)T2
L20    2 L19 AND BARLEY(S)TRANSGENIC(S)T2

=> d l20 1-2 ti

L20  ANSWER 1 OF 2  USPATFULL on STN
TI    Barley with altered branching enzyme activity and starch and starch
      containing products with an increased amylose content

L20  ANSWER 2 OF 2  USPATFULL on STN
TI    Methods and compositions for transformation of cereals using cultured
      shoot meristematic tissue

=> d l20 1-2 bib

L20  ANSWER 1 OF 2  USPATFULL on STN
AN    2004:78300  USPATFULL
TI    Barley with altered branching enzyme activity and starch and starch
      containing products with an increased amylose content
IN    Regina, Ahmed, Ngunnawal ACT, AUSTRALIA
      Morell, Matthew Kennedy, Aranda ACT, AUSTRALIA
      Rahman, Sadequr, Melba ACT, AUSTRALIA
PI    US 2004060083      A1    20040325
AI    US 2003-434893      A1    20030509 (10)
PRAI  AU 2002-2198      20020509
DT    Utility
FS    APPLICATION
LREP  Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10036
CLMN  Number of Claims: 46

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ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 2690
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 2 OF 2 USPATFULL on STN
AN 2002:311085 USPATFULL
TI Methods and compositions for transformation of cereals using cultured
shoot meristematic tissue
IN Zhang, Shibo, Albany, CA, United States
Cho, Myeong-Je, Alameda, CA, United States
Bregitzer, Phillip, American Falls, ID, United States
Lemaux, Peggy G., Moraga, CA, United States
PA The Regents of the University of California, Oakland, CA, United States
(U.S. corporation)
The United States of America as represented by the Secretary of
Agriculture, Washington, DC, United States (U.S. corporation)
PI US 6486384 B1 20021126
AI US 1998-159317 19980923 (9)
PRAI US 1997-59873P 19970924 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Kruse, David H
LREP Morrison & Foerster LLP
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 2173

=> d his

(FILE 'HOME' ENTERED AT 17:12:25 ON 07 JUN 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
17:12:37 ON 07 JUN 2004

L1 328 S (LEMAUX, P? OR LEMAUX P?)/AU
L2 383 S (MCELROY, D? OR MCELROY D?)/AU
L3 43 S (KOPREK, T? OR KOPREK T?)/AU
L4 20 S L1 AND L2 AND L3
L5 20 S L4 AND (BARLEY OR HORDEUM)
L6 5 DUPLICATE REMOVE L5 (15 DUPLICATES REMOVED)
L7 702 S L1 OR L2 OR L3
L8 682 S L7 NOT L4
L9 170 S L8 AND (BARLEY OR HORDEUM)
L10 135 S L9 AND TRANSGENIC
L11 15 S L10 AND T2
L12 6 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)
L13 0 S L12 AND TRANSPOSON
L14 51 S BARLEY AND TRANSGENIC AND T2
L15 36 S L14 NOT L7
L16 0 S L15 AND TRANSPOSON
L17 16 DUPLICATE REMOVE L15 (20 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 17:21:13 ON 07 JUN 2004

L18 1591 S BARLEY(S) TRANSGENIC
L19 113 S L18 AND T2
L20 2 S L19 AND BARLEY(S) TRANSGENIC(S) T2

=> s l19 barley(p)transgenic(p)t2

MISSING OPERATOR L19 BARLEY

The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l18 and barley(p)transgenic(p)t2

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14701 BARLEY
26891 TRANSGENIC
84579 T2
      2 BARLEY(P) TRANSGENIC(P) T2
L21      2 L18 AND BARLEY(P) TRANSGENIC(P) T2

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=> s l21 not l20
L22      0 L21 NOT L20

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=> d his

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(FILE 'HOME' ENTERED AT 17:12:25 ON 07 JUN 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 17:12:37 ON 07 JUN 2004

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L1      328 S (LEMAUX, P? OR LEMAX P?)/AU
L2      383 S (MCELROY, D? OR MCELROY D?)/AU
L3      43 S (KOPREK, T? OR KOPREK T?)/AU
L4      20 S L1 AND L2 AND L3
L5      20 S L4 AND (BARLEY OR HORDEUM)
L6      5 DUPLICATE REMOVE L5 (15 DUPLICATES REMOVED)
L7      702 S L1 OR L2 OR L3
L8      682 S L7 NOT L4
L9      170 S L8 AND (BARLEY OR HORDEUM)
L10     135 S L9 AND TRANSGENIC
L11     15 S L10 AND T2
L12     6 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)
L13     0 S L12 AND TRANSPOSON
L14     51 S BARLEY AND TRANSGENIC AND T2
L15     36 S L14 NOT L7
L16     0 S L15 AND TRANSPOSON
L17     16 DUPLICATE REMOVE L15 (20 DUPLICATES REMOVED)

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FILE 'USPATFULL' ENTERED AT 17:21:13 ON 07 JUN 2004

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L18     1591 S BARLEY(S) TRANSGENIC
L19     113 S L18 AND T2
L20     2 S L19 AND BARLEY(S) TRANSGENIC(S) T2
L21     2 S L18 AND BARLEY(P) TRANSGENIC(P) T2
L22     0 S L21 NOT L20

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE
ENTRY
12.64

TOTAL
SESSION
69.70

STN INTERNATIONAL LOGOFF AT 17:25:48 ON 07 JUN 2004